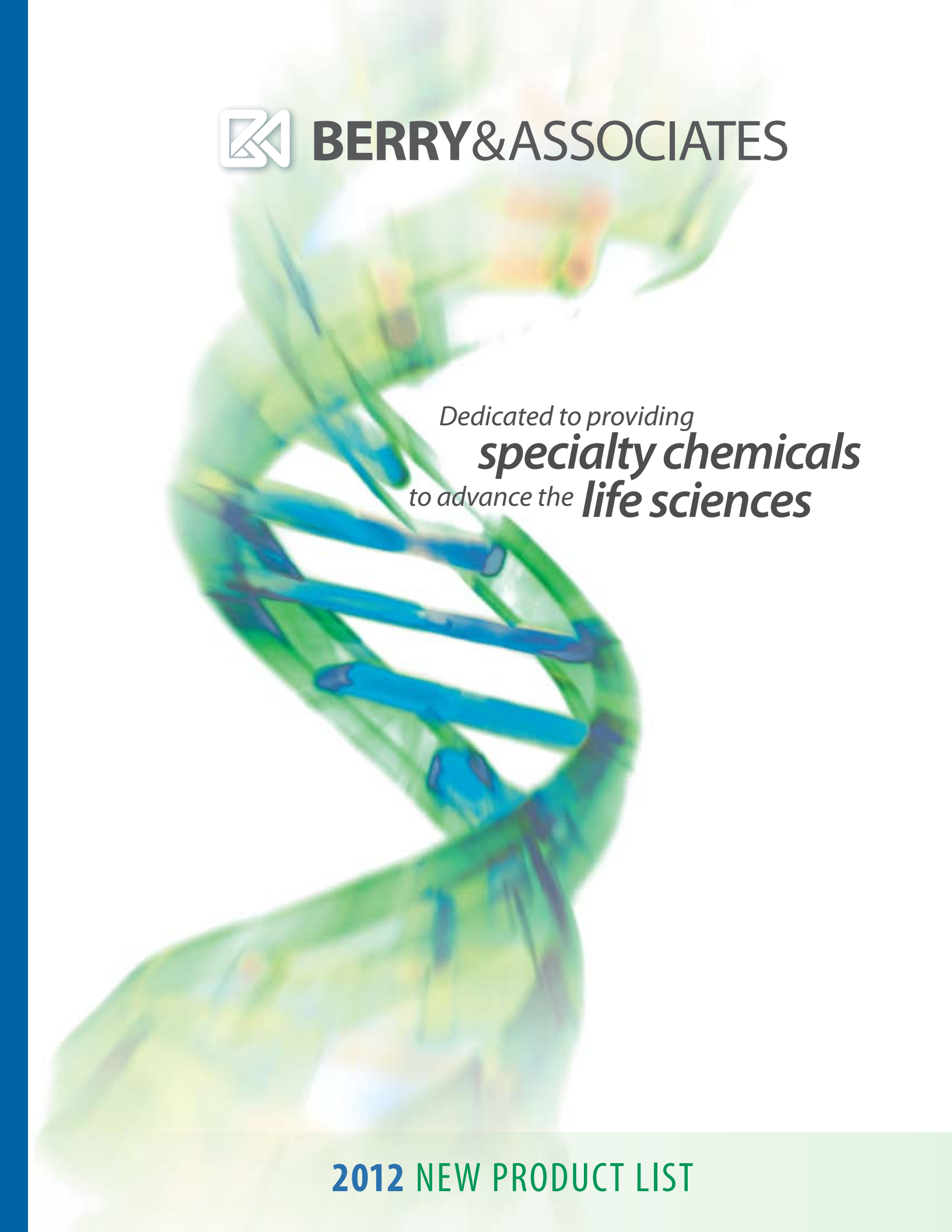
BERRY&ASSOCIATES

Dedicated to providing
specialty chemicals
to advance the ***life sciences***



2012 NEW PRODUCT LIST

General Information

Welcome to our 2012 New Releases listing from Berry & Associates. Since our 2009 Full Catalog, we have added over 100 compounds to our lineup. Our product offerings have expanded further to include our Click-mates™ collection for biomolecule conjugation as well as our Click-easy™ collection of alkynes for copper-free click ligation. In addition, we also now offer a family of 5-hydroxymethyl cytidine tools for epigenetic research. This supplement includes new products in the following areas:

Blackberry® 650 Quenchers

- Non-fluorescent, stable quenchers of long-wavelength fluorophores
- Excellent performance for both FRET-mode and contact-mode quenching

BerrySelect® Reagents for DNA and RNA Synthesis

- Specialty Phosphoramidites
- Derivatized CPGs
- Functional Modifiers
- Fluorescent Building Blocks
- Quenchers of Fluorescence
- Spacers
- Carrier and coenzyme labels

Nucleosides

- One of the most comprehensive collections of nucleosides available
- Many rare nucleosides in stock in gram quantities

Specialty Chemicals

- Aminooxy Linkers and Spacers
- TEG-Azides for click chemistry
- Cyclooctynes for copper-free Click Chemistry

At Berry & Associates, we also have extensive experience with R & D collaborations in the nucleoside and phosphoramidite arena as well as with general Life Science applications. Please feel free to contact us with any of your research needs.

Ordering Information

Orders may be placed by phone, fax or e-mail:

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Web:	www.berryassoc.com
Production, Research and Development:	Berry & Associates, Inc. 2434 Bishop Circle East Dexter, MI 48130 USA

Berry & Associates, Inc. was established in 1988 to provide the best and most comprehensive source of nucleoside analogs for researchers in the life sciences. The company is located outside of Ann Arbor, Michigan (USA) and features state-of-the-art laboratories, facilitating the production of high quality products. The credentials of our highly trained staff of chemists include over 400 publications and 80 patents in synthetic organic and medicinal chemistry. High quality chemicals, timeliness, and personalized service are the hallmarks of Berry & Associates.

Click-easy™ Alkynes for Cu-Free Click Conjugation

Since its introduction in 2002, the click reaction has become an immensely valuable tool spanning many facets of research from surface science to biomolecules. This cycloaddition reaction is remarkably efficient and reliable even in the presence of the diverse array of functional groups found in DNA and the variety of scientifically intriguing ligation partners. For seminal reading on the evolution of the use of this 1,3-dipolar cycloaddition in bioconjugation and bioorthogonal labeling, see references 1–5. Development of the click methodology has led to the production and study of many modified DNA oligonucleotides (ODNs) for biological as well as nanotechnological and surface oriented applications. The beauty of the click cycloaddition lies in the efficient formation of a non-toxic triazole from biological building blocks that have been modified with non-perturbing azides and unactivated alkynes. However, the requisite Cu(I) catalyst can degrade oligonucleotides[6] and can compromise cell function, thereby limiting the utility of the Cu-catalysed click reaction for these purposes. As a result, a large number of cyclooctynes have been developed to capitalize upon the unique nature of a ring-bound alkyne for strain-promoted alkyne-azide cycloaddition (SPAAC).[7] New to our catalog are the bicyclo[6.1.0]nonyne derivatives (BCNs) for copper-free click reactions.[8] (Figure 1)

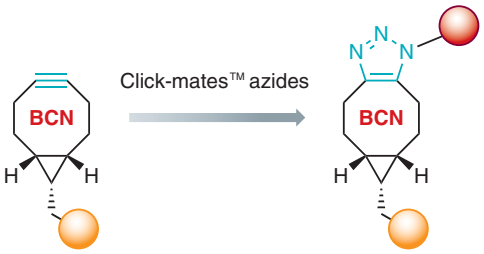

Figure 1. BCNs for copper-free clicking

In one illustrative example, 5′-Click-easy™ BCN CEP II (BA 0373) is incorporated at the 5′-terminus of an oligo with > 99% efficiency. Following a diethylamine wash, standard cleavage, and salt switch, a triethylamine salt of the T6 oligo was taken up in a buffer/acetonitrile solution and treated with PQQ-TEG azide with nearly complete consumption of oligo within 26 hours (Figure 2). When the same BCN-oligo was treated with Desthiobiotin-TEG azide (BT 1075) in approximately 100-fold molar excess in the same reaction volume, the reaction was nearly complete in just 30 minutes (Figure 3).

We have endeavored to prepare a wide variety of click ligation tools to facilitate your research. In addition to the Click-easy™ alkynes for copper free click cycloadditions, we also offer a variety of standard alkynes in our Click-mates™ collection. Naturally, the alkynes are used in conjunction with biologically relevant azides, so we also offer a large selection of Click-mates™ azides

Please consult our website (**www.berryassoc.com**) for the most current listing of products and prices for our entire collection of click ligation tools.

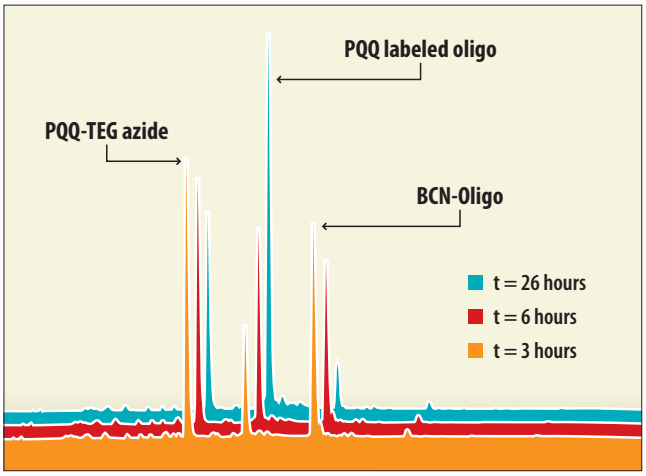

Figure 2. BCN-Oligo with PQQ-TEG azide (FC 8170)

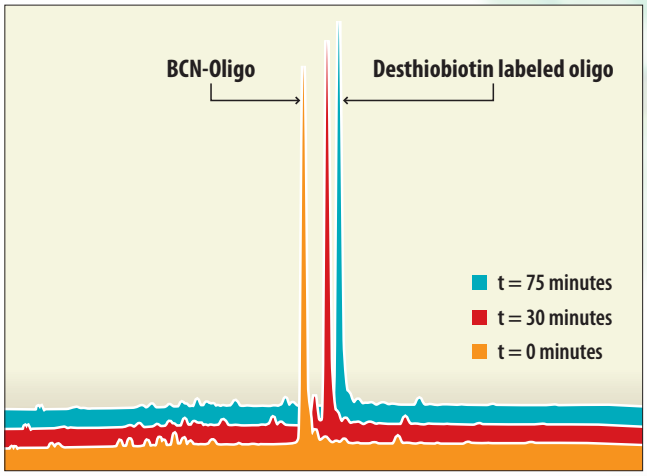

Figure 3. BCN-Oligo with excess Desthiobiotin-TEG azide (BT 1075)

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2. C.W. Tornoe, C. Christensen and M. Meldal, *J. Org. Chem.,* **2002**, *67*, 3057–3064.

3. H. C. Kolb, M. G. Finn and K. B. Sharpless, *Angew. Chem., Int. Ed.,* **2001**, *40*, 2004–2021.

4. P. M. E. Gramlich, C. T. Wirges, A. Manetto and T. Carell, *Angew. Chem., Int. Ed.,* **2008**, *47*, 8350–8358.

5. (a) R. Huisgen, *Proc. Chem. Soc., London,* **1961**, 357–369. (b) R. Huisgen, *Angew. Chem., Int. Ed. Engl.,* **1963**, *2*, 565–632. (c) R. Huisgen, 1,3-Dipolar Cycloadditional Chemistry, Wiley,New York, 1984.

6. Gierlich, J.; Burley, G. A.; Gramlich, P. M. E.; Hammond, D. M.; Carell, T. *Org. Lett.* **2006**, *8*, 3639-3642.

7. Agard, N.J.; Prescher, J.A.; Bertozzi, C.R. *J. Am. Chem. Soc.* **2004**, *126*, 15046-15047.

8.a) Dommerholt, J.; Schmidt, S.; Temming, R.; Hendricks, L.J.A.; Rutjes, F.P.J.T.; van Hest, J.C.M.; Lefeber, D.J.; Friedl, P.; van Delft. F.L. . *Angew. Chem. Int. Ed.* **2010**, *49*, 9422-9425. b) Debets, M.F.; van Berkel, S.S.; Dommerholt, J.; Dirks, A.J.; Rutjes, F.P.J.T.; van Delft, F.L. *Accounts of Chem. Res.* **2011**, *44*, 805-815.

5-Hydroxymethyl-2'-deoxycytidine Tools for Epigenetic Research

The 5-methylation of 2'-deoxycytidine is an important and well studied modification of DNA. This methylation does not impact base pairing, but it alters DNA in ways that affect the binding of transcription factors and subsequent gene expression. Therefore, cytosine methylation is an important epigenetic marker.[1] The exact function of this new "sixth base" is the subject of much current research. As shown in Figure 1, DNA methyltransferases (DNMT) catalyze the *in vivo* conversion of dC to mC and subsequent oxidation by ten-to-eleven translocation oxidases (TET) affords hmC. It has been further postulated that a complete cycle involving further oxidation to fC and then to caC followed by decarboxylation to dC could exist *in vivo*.[2] Recently, fC has been discovered in embryonic stem cells with concentrations decreasing as cell differentiation proceeds.[3]

To facilitate research in this area, Berry & Associates offers a collection of 5hmC derivatives including the nucleoside standards 5-Hydroxymethylcytidine (PY 7596) and 5-Hydroxymethyl-2'-deoxycytidine (PY 7588), and a variety of tools for investigation of the proposed methylation cycle.

Please consult our website (**www.berryassoc.com**) for the most current listing of products and prices.

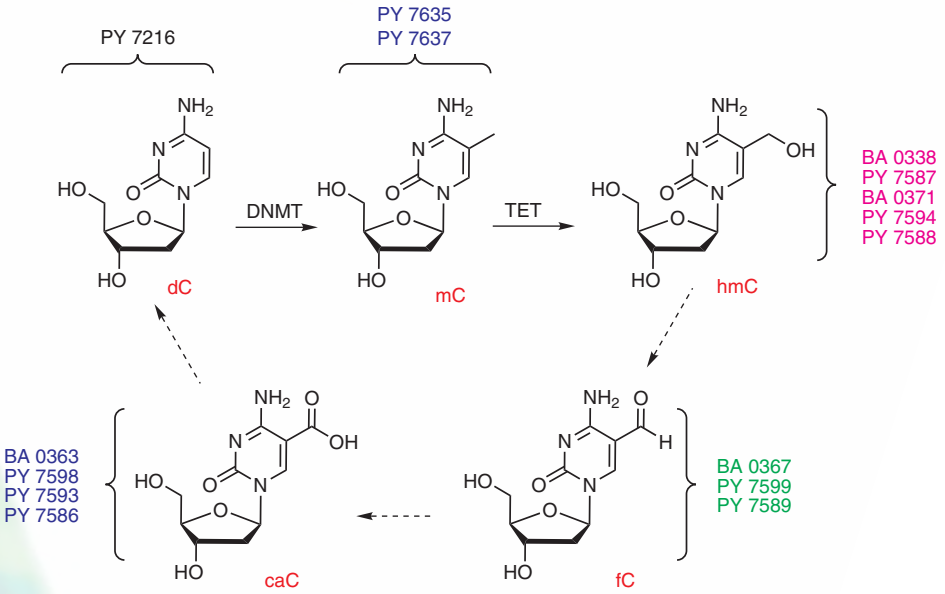

Figure 1. Cytosine methylation cycle and related Berry & Associates Products

1. a) Kriaucionis, S.; Heintz, N. *Science,* **2009**, *324*, 929-930. b) Tahiliani, M.; Koh, K.P.; Shen, Y.H.; Pastor, W.A.; Bandukwala, H.; Brundo, Y.; Agrawal, S.; Iyer, I.M.; Liu, D.R.; Aravind, L.; Rao, A. *Science,* **2009**, *324*, 930-935. c) Munzel, M.; Globisch, D.; Bruckl, T.; Wagner, M.; Welzmiller, V.; Michalakis, S.; Muller, M.; Biel, M.; Carell, T. *Angew. Chem. Int. Ed.,* **2010**, *49*, 5375-5377. d) Szwagierczak, A.; Bultmann, S.; Schmidt, C.S.; Spada, F.; Leonhardt, H. *Nucleic Acids Res.* **2010**, *38*, e181.

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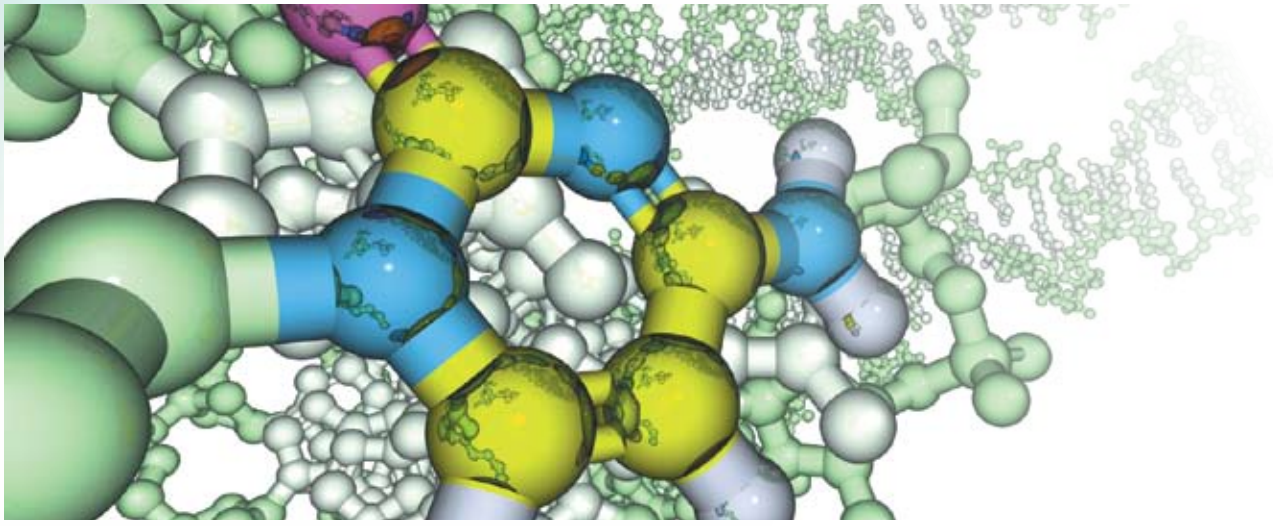
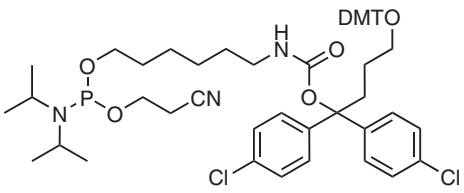


BA 0324



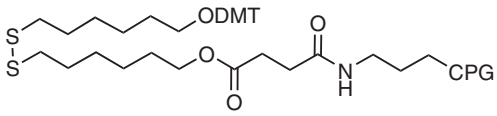
Cmoc-5′-amino-modifier-C6 CEP

MF: $C_{53}H_{64}Cl_2N_3O_7P$
MW: **956.97**
CAS No: **1246448-29-2**

100 µmol	**$420**
0.25 g	**$685**

Novel acid labile *N*-protected 5′-amino modifier.

BA 0330

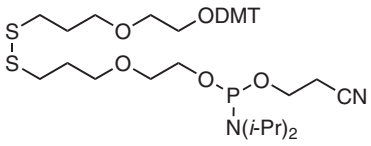


3´-Thiol-modifier-C6-S-S CPG (1000 Å)

MF: **N/A**
MW: **N/A**
CAS No: **None Assigned**

100 mg	**$85**
1 g	**$600**

BA 0332

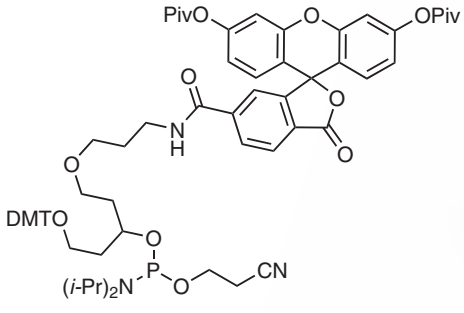


Thiol-modifier-oxa-C6-S-S CEP

MF: $C_{40}H_{57}N_2O_7PS_2$
MW: **772.99**
CAS No: **1159976-43-8**

100 µmol	**$145**
250 mg	**$360**

BA 0334



Fluorescein III CEP

MF: $C_{69}H_{80}N_3O_{14}P$
MW: **1206.33**
CAS No: **1306615-53-1**

100 µmol	**$380**
0.25 g	**$605**

Installs a 6-carboxyfluorescein internally or at the 5′-terminus of an oligonucleotide using a DMT-bearing phosphoramidite with a 1,3-diol framework.

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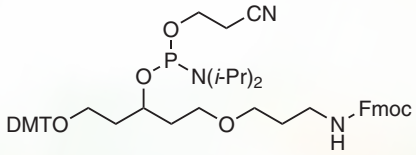
BA 0335



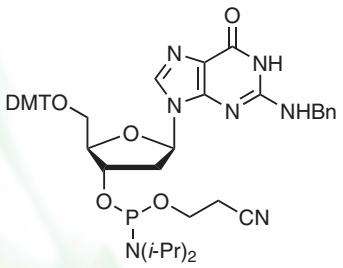
Fmoc-amino-modifier III CEP

MF: $C_{53}H_{64}N_3O_8P$
MW: **902.06**
CAS No: **1306615-50-8**

100 µmol	**$420**
0.25 g	**$685**

For installation of an Fmoc protected amino group internally or at the 5′-end of an oligonucleotide.

BA 0337



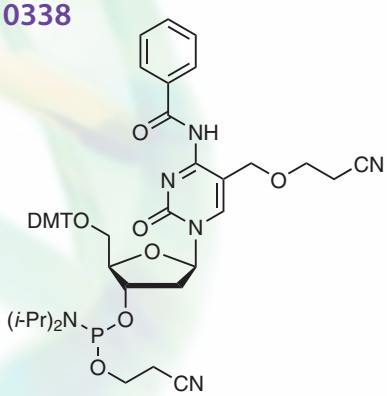
N^2-Benzyl-2 -deoxyguanosine CEP

MF: $C_{47}H_{54}N_7O_7P$
MW: **859.95**
CAS No: **209785-74-0**

100 µmol	**$425**
250 mg	**$975**

Useful for probing the steric requirements at N2 of dG in various applications.

BA 0338

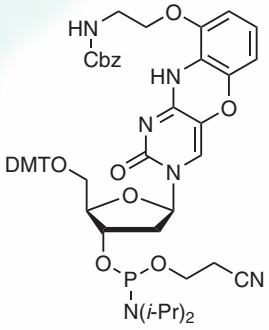


N-Benzoyl-5-((2-cyanoethoxy)methyl)-2′-deoxycytidine CEP

MF: $C_{50}H_{57}N_6O_9P$
MW: **917.00**
CAS No: **188411-06-5**

15 g minimum order
Call for pricing

BA 0339



8-OxoG clamp CEP

MF: $C_{55}H_{61}N_6O_{11}P$
MW: **1013.08**
CAS No: **1134373-47-9**

100 µmol	**$505**
0.25 g	**$958**

Fluorescent molecule for the selective recognition of 8-oxoG.

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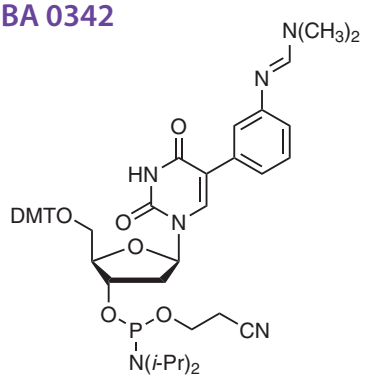
BA 0342



5-(3-Aminophenyl)-2′-dU CEP

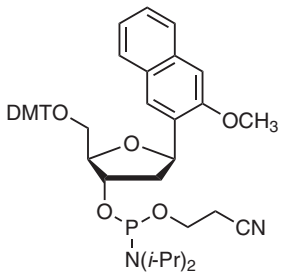
MF: $C_{48}H_{57}N_6O_8P$ — **100 µmol** **$375**

MW: **876.98**

CAS No: **None Assigned**

Simple organic 2′-deoxyribonucleoside derivatives for use as electroactive DNA markers.

BA 0343



dNaM CEP

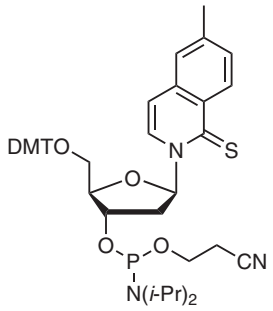
MF: $C_{46}H_{53}N_2O_7P$ — **100 µmol** **$415**

MW: **776.98** — **0.25 g** **$995**

CAS No: **1117893-10-3**

Half of a novel base pair that achieves pair recognition through hydrophobic interactions. See also d5SICS CEP (BA 0344).

BA 0344



d5SICS CEP

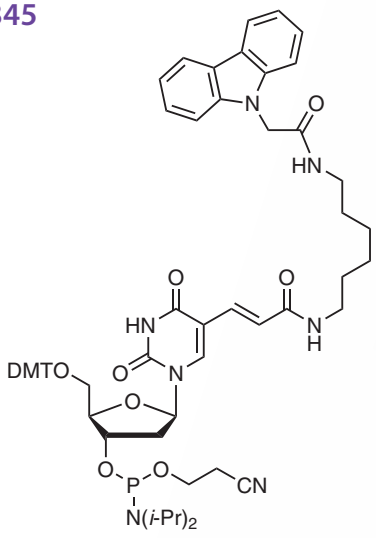
MF: $C_{45}H_{52}N_3O_6PS$ — **100 µmol** **$918**

MW: **793.95** — **0.25 g** **$2,225**

CAS No: **1010689-04-9**

Half of a novel base pair that achieves pair recognition through hydrophobic interactions. See also dNaM CEP (BA 0343).

BA 0345



Carbazole dT CEP

MF: $C_{62}H_{72}N_7O_{10}P$ — **100 µmol** **$195**

MW: **1106.26** — **0.25 g** **$335**

CAS No: **None Assigned**

For use as a light-controlled, reversible DNA photoligation tool.

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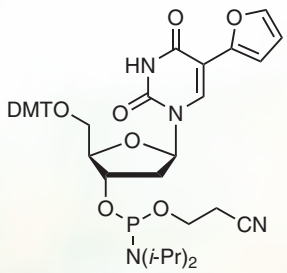
BA 0346



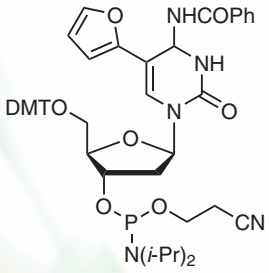
5-(2-Furyl)-dU CEP

MF: $C_{43}H_{49}N_4O_9P$
MW: **796.86**
CAS No: **863713-51-3**

100 µmol	**$245**
0.25 g	**$580**

Small, fluorescent natural base mimic that can signal the presence of a basic sites in hybridized DNA oligonucleotides.

BA 0347



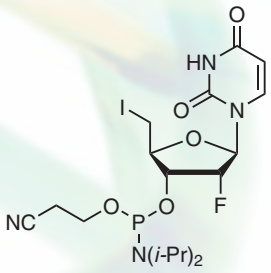
5-(Furan-2-yl)-dC CEP

MF: $C_{50}H_{54}N_5O_9P$
MW: **899.97**
CAS No: **1119734-65-4**

100 µmol	**$245**
0.25 g	**$580**

Small, fluorescent natural base mimic that can be used as an *in vitro* signal the presence of G, 8-oxoG, or T on a complementary strand in hybridized DNA oligonucleotides.

BA 0348

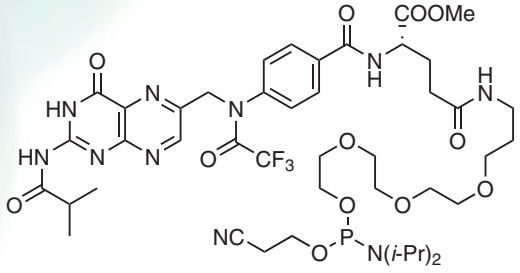


2′-Fluoro-5′-iodo-deoxyuridine CEP

MF: $C_{18}H_{27}FIN_4O_5P$
MW: **556.31**
CAS No: **None Assigned**

100 µmol	**$240**
0.25 g	**$625**

BA 0349



5′-Folate-TEG CEP

MF: $C_{44}H_{62}F_3N_{10}O_{12}P$
MW: **1010.99**
CAS No: **1356964-22-1**

50 µmol	**$548**
100 µmol	**$975**

Useful for the installation of a folate tag for recognition by overexpressed folate receptors in cancer cells.

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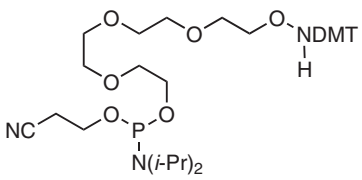
BA 0350

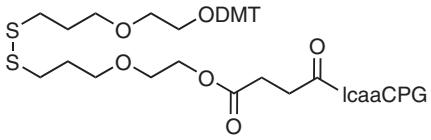


5´-Aminooxy-modifier-11 CEP

MF:	$C_{38}H_{54}N_3O_8P$	100 µmol	$235
MW:	711.82	0.25 g	$785
CAS No:	None Assigned	1 g	$2,500

For the synthesis of oligonucleotides bearing a 5′-aminooxy group.

BA 0351

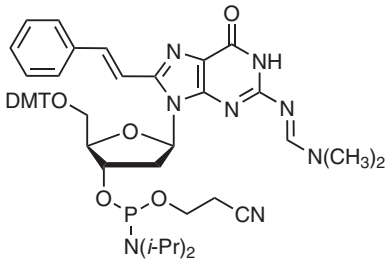


3′-Thiol modifier-oxa-C6-S-S CPG (1000 Å)

MF:	Unknown	200 nmol columns (pkg of 4)	$69
MW:	Unknown	100 mg	$70
CAS No:	None Assigned	1µmol columns (pkg of 4)	$115
		1 g	$500

Superior thiol modifier giving higher yeilds and longer oligos.

BA 0352

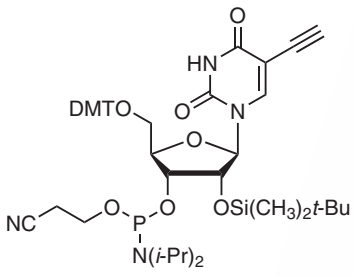


8-Styryl-dG CEP

MF:	$C_{51}H_{59}N_8O_7P$	100 µmol	$752
MW:	927.04	0.25 g	$1,560
CAS No:	1101864-12-3		

Photochromic nucleoside (PCN) that provides reversible duplex regulation *via* a light induced trans-cis isomerization.

BA 0353



5-Ethynyl uridine CEP

MF:	$C_{47}H_{61}N_4O_9PSi$	100 µmol	$445
MW:	885.07	0.25 g	$960
CAS No:	1193451-06-7		

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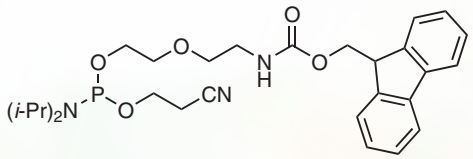
BA 0354



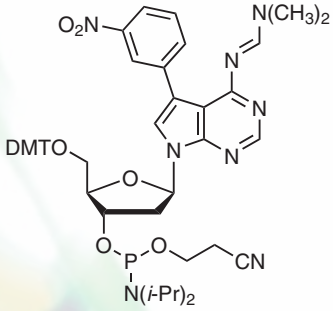
Fmoc-5′-amino-modifier-5 CEP

MF: $C_{28}H_{38}N_3O_5P$
MW: **527.59**
CAS No: **1306615-52-0**

100 umol **$95**
0.25 g **$190**

For 5′- incorporation of an amine that can be deprotected prior to cleaving the oligonucleotide from the solid support.

BA 0355



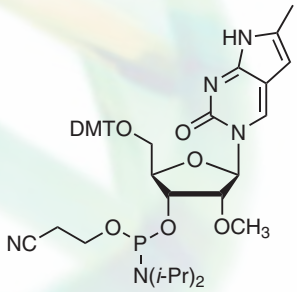
7-(3-Nitrophenyl)-7-deaza-2′-dA CEP

MF: $C_{50}H_{57}N_8O_8P$
MW: **929.01**
CAS No: **None Assigned**

100 µmol **$315**
0.25 g **$595.55**

Simple organic 2′-deoxyribonucleoside derivatives for use as electroactive DNA markers.

BA 0356



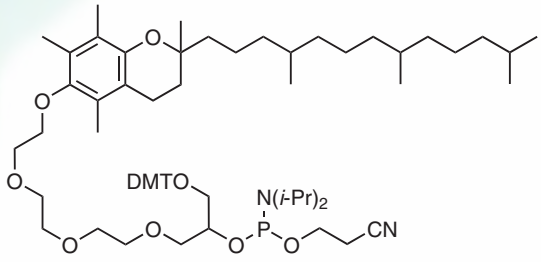
2′-*O*-Methyl-pyrrolo C CEP

MF: $C_{43}H_{52}N_5O_8P$
MW: **797.88**
CAS No: **644962-95-8**

100 µmol **$395**
0.25 g **$875**

Pyrrolo-C (PC) is a fluorescent analog of cytidine.

BA 0357



Tocopherol-TEG CEP

MF: $C_{68}H_{103}N_2O_{10}P$
MW: **1139.56**
CAS No: **None Assigned**

10 g minimum order
Call for pricing

Lipophilic carrier tag for internal or 5′-terminus installation in oligonucleotides.

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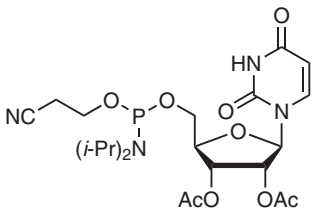
BA 0358



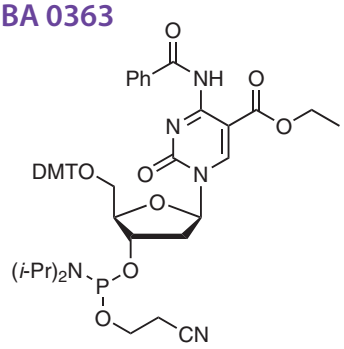
2′,3′-Di-*O*-acetyl-U-5′-CEP

MF: $C_{22}H_{33}N_4O_9P$
MW: **528.49**
CAS No: **208655-84-9**

100 µmol **$155**
0.25 g **$465**

Used for the preparation of uridylated amino acids. See also BX 00004.

BA 0363

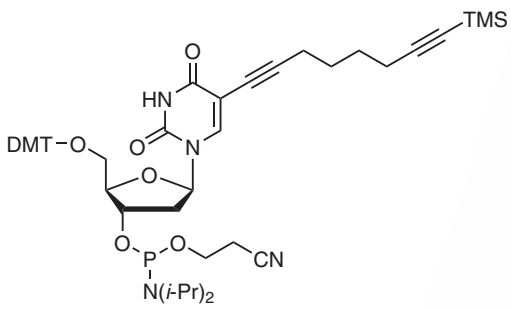


5-Carboethoxy dC CEP

MF: $C_{49}H_{56}N_5O_{10}P$
MW: **905.97**
CAS No: **None Assigned**

5 g minimum order
Call for pricing

BA 0364



5-Octadiynyl-TMS-dU CEP

MF: $C_{50}H_{63}N_4O_8PSi$
MW: **907.12**
CAS No: **None Assigned**

2 g minimum order
Call for pricing

A useful diyne from our Click-mates™ collection for allowing multiple varied click reactions in a single oligo.

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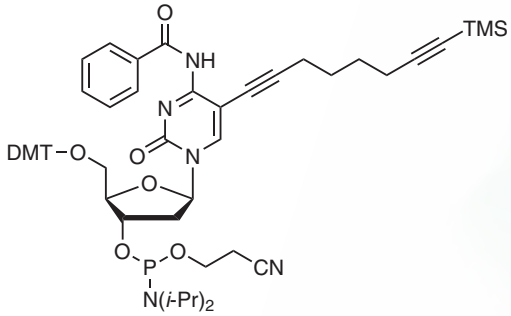
BA 0365



5-Octadiynyl-TMS-dC CEP

MF: $C_{57}H_{68}N_5O_8PSi$
MW: **1010.24**
CAS No: **1021301-02-9**

2 g minimum order
Call for pricing

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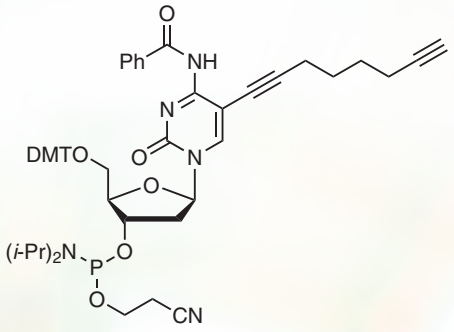
BA 0366



5-Octadiynly-dC CEP

MF: $C_{54}H_{60}N_5O_8P$ **2 g minimum order**
MW: **938.06** **Call for pricing**
CAS No: **1021300-97-9**

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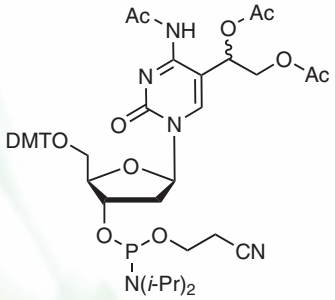
BA 0367

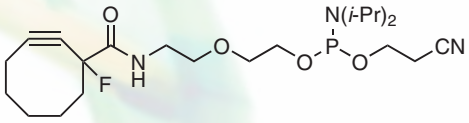


Masked 5-formyl-dC CEP

MF: $C_{47}H_{58}N_5O_{12}P$ **50 µmol** **$640**
MW: **915.96** **100 µmol** **$995**
CAS No: **364613-34-3**

Useful for investigating the role of cytidine methylation in control of gene expression.

BA 0368



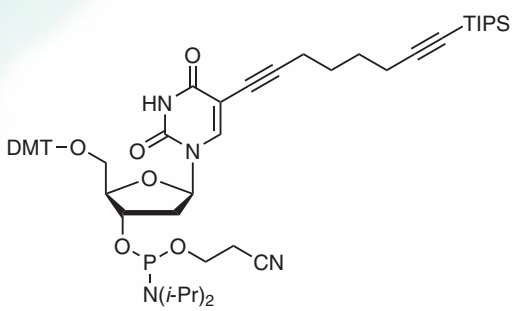
5′-Click-easy™ MFCO CEP

MF: $C_{22}H_{37}FN_3O_4P$ **50 µmol** **$325**
MW: **457.52** **100 µmol** **$590**
CAS No: **1306615-49-5**

BA 0368 from our Click-mates™ collection is for the installation of a monofluoro-substituted cyclooctyne (MFCO) into an oligonucleotide for subsequent copper-free click elaboration.

BA 0368 is protected by US 7,807,619, the rights of which are assigned to The Regents of the University of California. Additional patents covering methods for their use in the modification of biomolecules are pending. It may be used for research purposes only. It is not licensed for resale and may only be used by the buyer. This product may not be used and are not licensed for clinical assays, where the results of such assays are provided as a diagnostic service. If a diagnostic or therapeutic use is anticipated, then a license must be requested from the University of California. The availability of such diagnostic and therapeutic use license(s) cannot be guaranteed from the University of California.

BA 0369



5-Octadiynyl-TIPS-dU CEP

MF: $C_{56}H_{75}N_4O_8PSi$ **2 g minimum order**
MW: **991.28** **Call for pricing**
CAS No: **None Assigned**

A useful diyne from our Click-mates™ collection for multiple, varied click reactions in a single oligo.

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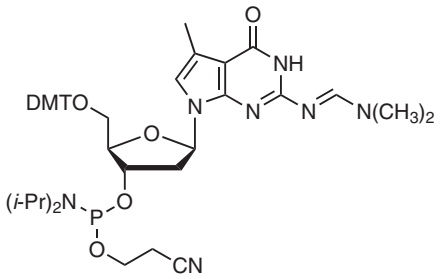
BA 0370



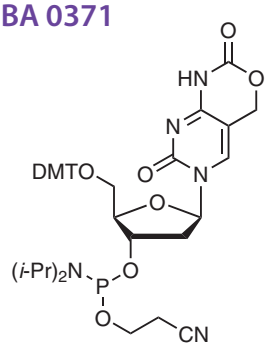
7-Deaza-7-methyl-2′-dG CEP

MF: $C_{45}H_{56}N_7O_7P$
MW: **837.94**
CAS No: **None Assigned**

100 µmol	**$725**
250 mg	**$2120**

BA 0370 is a useful tool for investigations of duplex stabilization as a result of substituents on the purine scaffold.

BA 0371



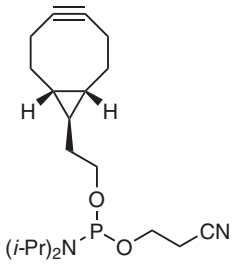
5-Hydroxymethyl-dC cyclic carbamate CEP

MF: $C_{41}H_{48}N_5O_9P$
MW: **785.82**
CAS No: **1257247-42-9**

50 µmol	**$540**
100 µmol	**$825**

Useful for investigating the role of hydroxymethyl cytidine in control of gene expression.

BA 0372



5′-Click-easy™ BCN CEP I

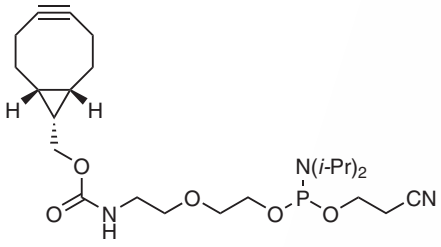
MF: $C_{22}H_{33}N_2O_2P$
MW: **364.46**
CAS No: **None Assigned**

100 µmol	**$450**
250 µmol	**$990**

BA 0372 is for the installation of a strained cyclooctyne (BCN) into an oligonucleotide for subsequent copper-free click elaboration.

Patent Pending.

BA 0373



5′-Click-easy ™ BCN CEP II

MF: $C_{24}H_{40}N_3O_5P$
MW: **481.57**
CAS No: **1352811-59-6**

100 µmol	**$499**
250 µmol	**$1100**

BA 0373 is for the installation of a strained cyclooctyne (BCN) into an oligonucleotide for subsequent copper-free click elaboration.

Patent Pending.

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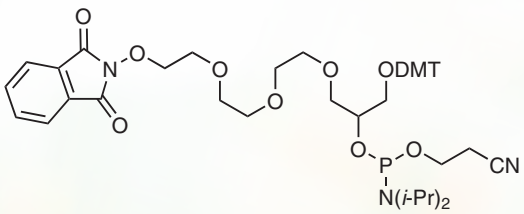
BA 0374



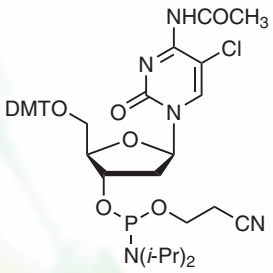
Aminooxy-modifier CEP

MF: $C_{47}H_{58}N_3O_{11}P$
MW: **871.95**
CAS No: **None Assigned**

100 µmol	**$260**
0.25 g	**$865**

For the synthesis of oligonucleotides bearing an aminooxy moiety.

BA 0375

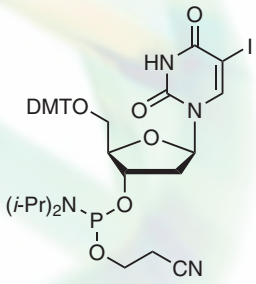


5-Chloro-dC CEP

MF: $C_{41}H_{49}ClN_5O_8P$
MW: **806.28**
CAS No: **1356140-67-4**

100 µmol	**$285**
0.25 g	**$670**

BA 0376

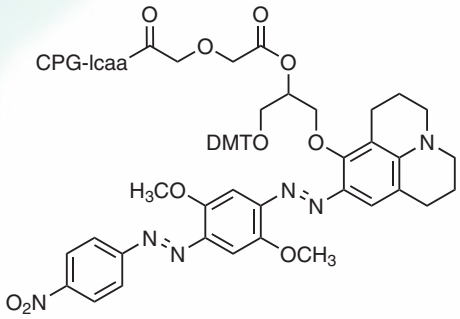


5-Iodo-dU CEP

MF: $C_{39}H_{46}IN_4O_8P$
MW: **856.68**
CAS No: **178925-48-9**

0.25 g	**$160**
1 g	**$485**

BL 2020



3′-BBQ-650® CPG II (1000 Å)

MF: **N/A**
MW: **N/A**
CAS No: **None Assigned**

200 nmol columns (pkg of 4)	**$75**
100 mg	**$135**
1 µmol columns (pkg of 4)	**$210**
1 g	**$1,050**

BlackBerry® Quencher 650 CPG II (3′-BBQ-650® CPG II) is used to install BBQ-650® at the 3′ end of an oligonucleotide, and is more rapidly cleaved from the solid support than its predecessor BL 2010.

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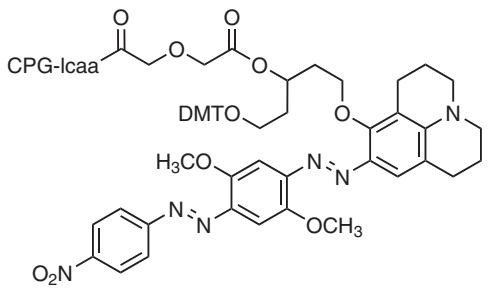
BL 2030



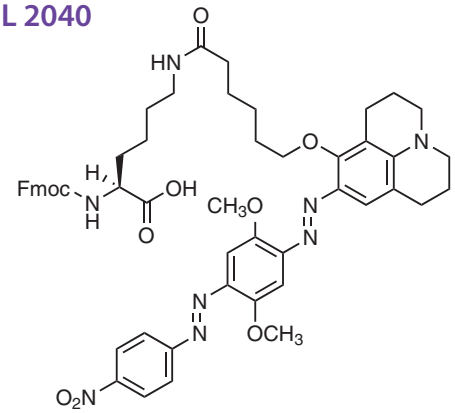
3′-BBQ-650® CPG III (1000 Å)

MF: **N/A**
MW: **N/A**
CAS No: **None Assigned**

200 nmol columns (pkg of 4)	**$80**
100 mg	**$147**
1µmol columns (pkg of 4)	**$230**
1 g	**$1,140**

BlackBerry® Quencher 650 CPG III (3′-BBQ-650® CPG III) is used to install BBQ-650® at the 3′ end of an oligonucleotide, and is more efficiently cleaved from the solid support than its predecessor BL 2020.

BL 2040

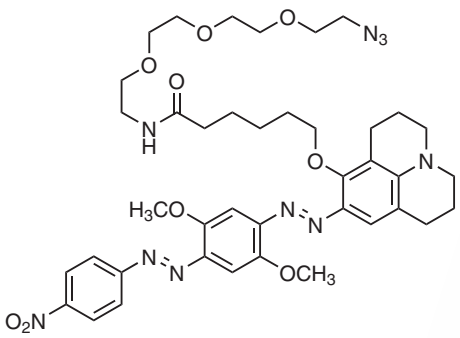


Fmoc-Lysine (BBQ-650™)-OH

MF: **$C_{53}H_{58}N_8O_{10}$**
MW: **967.08**
CAS No: **None Assigned**

50 mg	**$465**
100 mg	**$710**

BL 3030



BBQ-650™-TEG azide

MF: **$C_{40}H_{52}N_{10}O_9$**
MW: **816.90**
CAS No: **1333148-80-3**

5 mg	**$250**
10 mg	**$425**

A useful tool from our Click-mates™ collection for adding our long wavelength quencher, BBQ-650®, to a variety of substrates.

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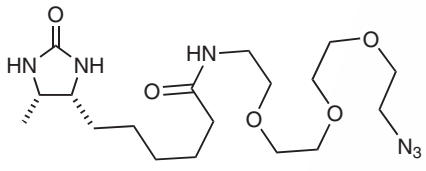
BT 1075



Desthiobiotin-TEG azide

MF: **$C_{18}H_{34}N_6O_5$**
MW: **414.50**
CAS No: **1306615-47-3**

25 mg	**$175**
100 mg	**$595**

A useful tool from our Click-mates™ collection for ligation of desthiobiotin *via* Saudinger ligation or click chemistry.

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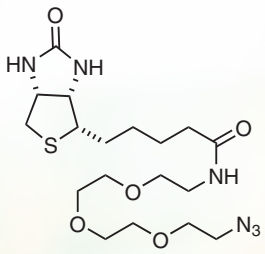
BT 1085



Biotin-TEG azide

MF:	$C_{18}H_{32}N_6O_5S$	25 mg	$190
MW:	444.55	100 mg	$490
CAS No:	875770-34-6		

A useful tool from our Click-mates™ collection for ligation of biotin *via* Saudinger ligation or click chemistry.

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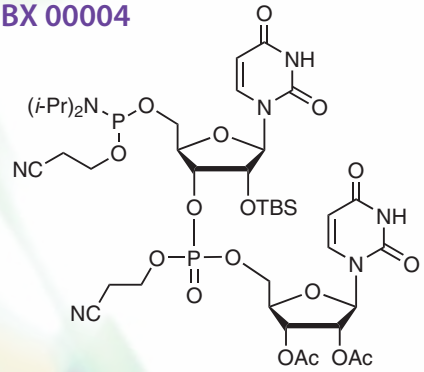
BX 00004

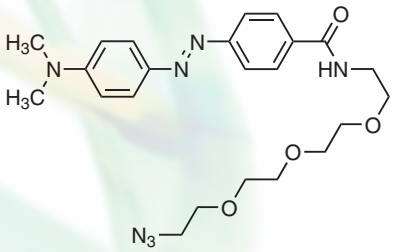


Protected U-U 5′-CEP

MF:	$C_{40}H_{61}N_7O_{17}P_2Si$	50 mg	$495
MW:	1001.98	100 mg	$980
CAS No:	915098-72-5		

Valuable nucleoside diphosphate tool for glycobiology. See also BA 0358.

DB 8010



Dabcyl-TEG azide

MF:	$C_{23}H_{31}N_7O_4$	5 mg	$95
MW:	469.54	25 mg	$210
CAS No:	None Assigned	100 mg	$490

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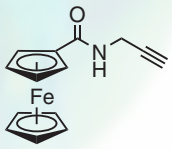
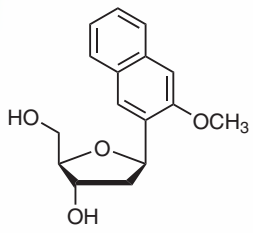
FC 8100



Ferrocenoyl propargylamide

MF:	$C_{14}H_{13}FeNO$	10 mg	$98
MW:	267.10	100 mg	$175
CAS No:	260444-13-1	250 mg	$275

FC 8110

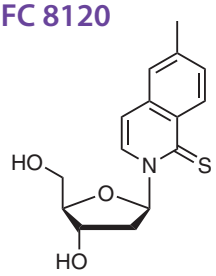


dNaM

MF:	$C_{16}H_{18}O_7$	25 mg	$165
MW:	274.31	100 mg	$495
CAS No:	1117893-19-2		

Unnatural base for expansion of the genetic alphabet.

FC 8120



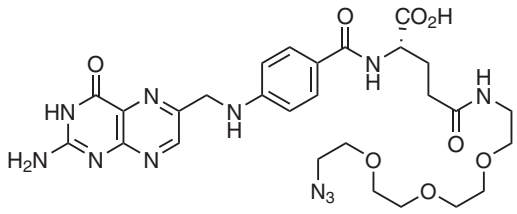
d5SICS

MF: $C_{16}H_{17}NO_3S$
MW: **291.37**
CAS No: **None Assigned**

25 mg	**$390**
100 mg	**$995**

Unnatural base for expansion of the genetic alphabet.

FC 8150



Folate TEG azide

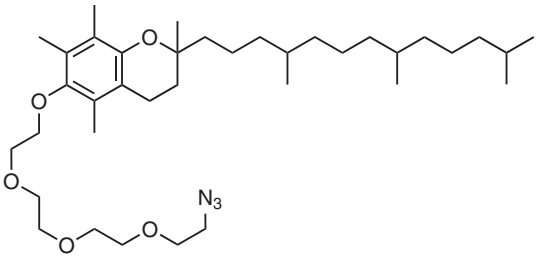
MF: $C_{27}H_{35}N_{11}O_8$
MW: **641.64**
CAS No: **1313026-32-2**

1 mg	**$295**
5 mg	**$750**
10 mg	**$995**

Useful azide from our Click-mates™ collection for the installation of a folate tag for recognition by overexpressed folate receptors in cancer cells.

The purchase of these products for use in applications relating to copper catalyzed azide-alkyne cycloaddition chemistry ("Click Chemistry") includes a limited, nontransferable license to intellectual property owned by TSRI to use this product solely for internal non-commercial research activities and specifically excludes clinical, therapeutic, or diagnostic use in humans or animals. Information regarding a license for commercial use in Click Chemistry may be obtained directly from The Scripps Research Institute, 10550 N. Torrey Pines Rd., La Jolla, CA 92037, or by contacting 858-784-8140 or click@scripps.edu.

FC 8160



Tocopherol TEG azide

MF: $C_{37}H_{65}N_3O_5$
MW: **631.93**
CAS No: **None Assigned**

5 mg	**$725**
10 mg	**$975**

Lipophilic carrier tag from our Click-mates™ collection.

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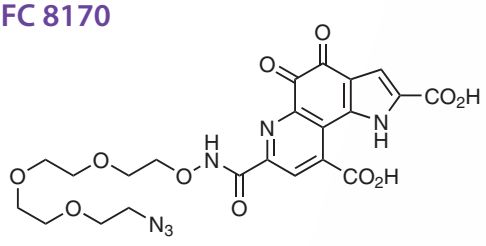
FC 8170



PQQ-TEG azide

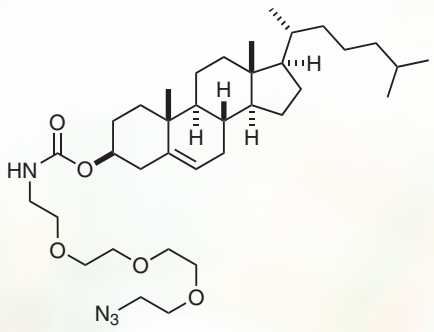
MF: $C_{22}H_{22}N_6O_{11}$
MW: **546.44**
CAS No: **1333145-23-5**

1 mg	**$295**

Useful azide from our Click-mates™ collection for the installation of a methoxatin tag.

The purchase of these products for use in applications relating to copper catalyzed azide-alkyne cycloaddition chemistry ("Click Chemistry") includes a limited, nontransferable license to intellectual property owned by TSRI to use this product solely for internal non-commercial research activities and specifically excludes clinical, therapeutic, or diagnostic use in humans or animals. Information regarding a license for commercial use in Click Chemistry may be obtained directly from The Scripps Research Institute, 10550 N. Torrey Pines Rd., La Jolla, CA 92037, or by contacting 858-784-8140 or click@scripps.edu.

FC 8180



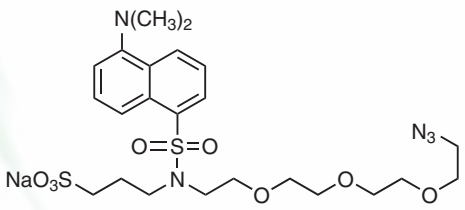
Cholesteryl-TEG azide

MF: $C_{36}H_{62}N_4O_5$ | 25 mg | $175
MW: 630.90 | 100 mg | $595
CAS No: None Assigned

Useful azide from our Click-mates™ collection for the installation of a cholesteryl tag.

The purchase of these products for use in applications relating to copper catalyzed azide-alkyne cycloaddition chemistry ("Click Chemistry") includes a limited, nontransferable license to intellectual property owned by TSRI to use this product solely for internal non-commercial research activities and specifically excludes clinical, therapeutic, or diagnostic use in humans or animals. Information regarding a license for commercial use in Click Chemistry may be obtained directly from The Scripps Research Institute, 10550 N. Torrey Pines Rd., La Jolla, CA 92037, or by contacting 858-784-8140 or click@scripps.edu.

FD 13005



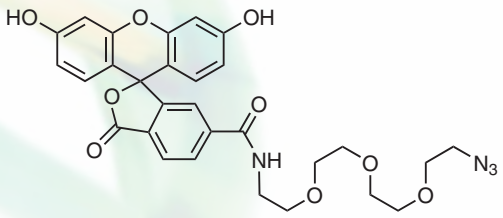
Water Soluble Dansyl-TEG azide

MF: $C_{23}H_{34}N_5NaO_8S_2$ | 25 mg | $95
MW: 595.67 | 100 mg | $325
CAS No: None Assigned

Useful tool from our Click-mates™ collection for ligation of a water soluble dansyl group *via* Saudinger ligation or click chemistry.

The purchase of these products for use in applications relating to copper catalyzed azide-alkyne cycloaddition chemistry ("Click Chemistry") includes a limited, nontransferable license to intellectual property owned by TSRI to use this product solely for internal non-commercial research activities and specifically excludes clinical, therapeutic, or diagnostic use in humans or animals. Information regarding a license for commercial use in Click Chemistry may be obtained directly from The Scripps Research Institute, 10550 N. Torrey Pines Rd., La Jolla, CA 92037, or by contacting 858-784-8140 or click@scripps.edu.

FF 6110



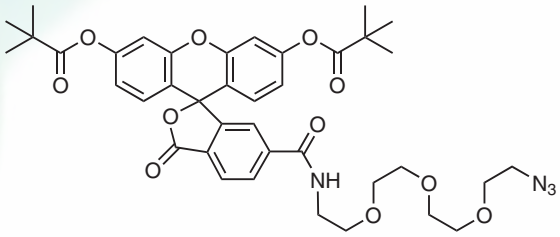
6-Carboxyfluorescein-TEG azide

MF: $C_{29}H_{28}N_4O_9$ | 25 mg | $175
MW: 576.55 | 100 mg | $595
CAS No: 412319-45-0

Useful fluorescein azide from our Click-mates™ collection for fluorescein incorporation *via* Staudinger ligation or click chemistry.

The purchase of these products for use in applications relating to copper catalyzed azide-alkyne cycloaddition chemistry ("Click Chemistry") includes a limited, nontransferable license to intellectual property owned by TSRI to use this product solely for internal non-commercial research activities and specifically excludes clinical, therapeutic, or diagnostic use in humans or animals. Information regarding a license for commercial use in Click Chemistry may be obtained directly from The Scripps Research Institute, 10550 N. Torrey Pines Rd., La Jolla, CA 92037, or by contacting 858-784-8140 or click@scripps.edu.

FF 6120



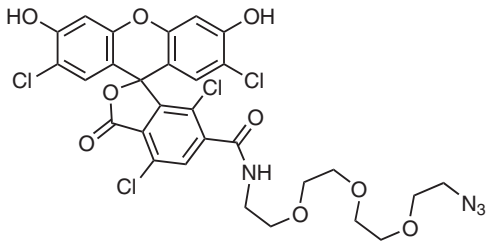
6-Carboxyfluorescein-dipivalate TEG azide

MF: $C_{39}H_{44}N_4O_{11}$ | 25 mg | $175
MW: 744.79 | 100 mg | $595
CAS No: 1254709-11-9

Useful fluorescein azide from our Click-mates™ collection for fluorescein incorporation *via* Staudinger ligation or click chemistry.

The purchase of these products for use in applications relating to copper catalyzed azide-alkyne cycloaddition chemistry ("Click Chemistry") includes a limited, nontransferable license to intellectual property owned by TSRI to use this product solely for internal non-commercial research activities and specifically excludes clinical, therapeutic, or diagnostic use in humans or animals. Information regarding a license for commercial use in Click Chemistry may be obtained directly from The Scripps Research Institute, 10550 N. Torrey Pines Rd., La Jolla, CA 92037, or by contacting 858-784-8140 or click@scripps.edu.

FF 6130



6-TET-TEG azide

MF: $C_{29}H_{24}Cl_4N_4O_9$
MW: **714.33**
CAS No: **1333145-22-4**

1 mg	**$295**

Useful fluorescein azide from our Click-mates™ collection for tetrachloro-fluorescein incorporation *via* Staudinger ligation or click chemistry.

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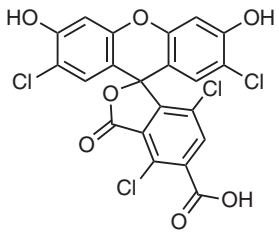
FF 6150

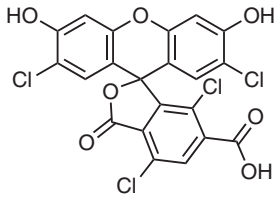


5-Carboxy-TET

MF: $C_{21}H_8Cl_4O_7$
MW: **514.10**
CAS No: **155911-13-0**

50 mg	**$200**
250 mg	**$850**

FF 6160

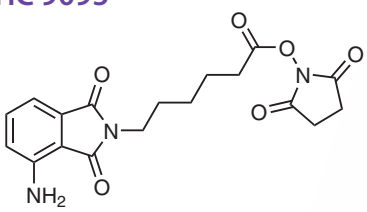


6-Carboxy-TET

MF: $C_{21}H_8Cl_4O_7$
MW: **514.10**
CAS No: **155911-14-1**

50 mg	**$200**
250 mg	**$850**

HC 9095



Luminol synthon *N*-hydroxysuccinimide ester

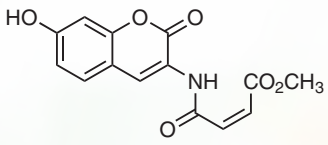
MF: $C_{18}H_{19}N_3O_6$
MW: **373.36**
CAS No: **1111822-73-1**

10 mg	**$75**
50 mg	**$210**

Luminol precursor.

Toll Free: 800.357.1145 Phone: 734.426-.3787 Fax: 734.426.9077 Email: orders@berryassoc.com **www.berryassoc.com**

HC 9097

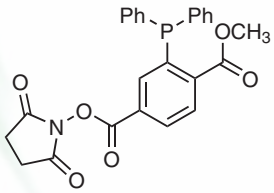


Glutathione reductase probe

MF:	$C_{14}H_{11}NO_6$	10 mg	$125
MW:	289.24	50 mg	$365
CAS No:	1173888-41-9		

Fast thiol detection with a probe utilizing coumarin as the fluorophore and maleimide as the thiol acceptor.

LK 4260



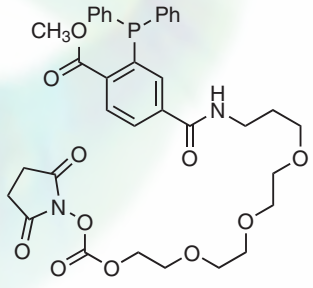
AmAz Coupler

MF:	$C_{25}H_{20}NO_6P$	50 mg	$125
MW:	461.40	100 mg	$200
CAS No:	532931-48-9	1 g	$1,500

Our AmAz Coupler allows for the linking of an amine-containing component to an azide-containing component. The amine-containing component is first reacted with the NHS ester and then the azide-containing component is reacted with the phosphine. An intramolecular trapping of the phosphorimidate by the ortho- methyl ester results in a stable aryl-1,4-diamide linkage between the two components.

LK 4260 and the use thereof in chemoselective ligation, are protected by one or more of the following US Patents, the rights of which are assigned to The Regents of the University of California: US 6,570,040, US 7122703, and US 7,838,665. Additional patents are pending. It may be used for research purposes only. It is not licensed for resale and may only be used by the buyer. This product may not be used and is not licensed for clinical assays, where the results of such assays are provided as a diagnostic service. If a diagnostic or therapeutic use is anticipated, then a license must be requested from the University of California. The availability of such diagnostic and therapeutic use license(s) cannot be guaranteed from the University of California.

LK 4265



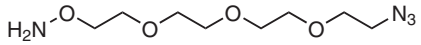
AmAz Coupler II

MF:	$C_{35}H_{39}N_2O_{11}P$	50 mg	$250
MW:	694.66	100 mg	$400
CAS No:	None Assigned	1 g	$2,980

Our AmAz Coupler II allows for the linking of an amine-containing component to an azide-containing component. The amine-containing component is first reacted with the NHS ester and then the azide-containing component is reacted with the phosphine. An intramolecular trapping of the phosphorimidate by the ortho- methyl ester results in a stable aryl-1,4-diamide linkage between the two components.

LK 4260 and the use thereof in chemoselective ligation, are protected by one or more of the following US Patents, the rights of which are assigned to The Regents of the University of California: US 6,570,040, US 7122703, and US 7,838,665. Additional patents are pending. It may be used for research purposes only. It is not licensed for resale and may only be used by the buyer. This product may not be used and is not licensed for clinical assays, where the results of such assays are provided as a diagnostic service. If a diagnostic or therapeutic use is anticipated, then a license must be requested from the University of California. The availability of such diagnostic and therapeutic use license(s) cannot be guaranteed from the University of California.

LK 4270



Aminooxy-TEG-Azide

MF:	$C_8H_{18}N_4O_4$	100 mg	$325
MW:	234.25	1 g	$2,600
CAS No:	1306615-51-9		

A bi-functional linker from our Click-mates™ collection with potential applications in oligonucleotide ligations.

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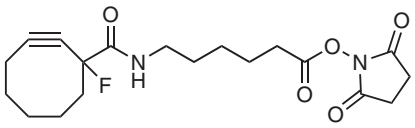
LK 4300



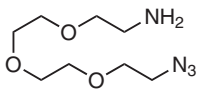
Click-easy™ MFCO-*N*-hydroxysuccinimide

MF:	$C_{19}H_{25}FN_2O_5$	25 mg	$255
MW:	380.41	50 mg	$470
CAS No:	1306615-48-4		

Monofluoro-substituted cyclooctyne (MFCO) from our Click-mates™ collection suitable for copper free click reactions.

LK 4300 is protected by US 7,807,619, the rights of which are assigned to The Regents of the University of California. Additional patents covering methods for their use in the modification of biomolecules are pending. It may be used for research purposes only. It is not licensed for resale and may only be used by the buyer. This product may not be used and are not licensed for clinical assays, where the results of such assays are provided as a diagnostic service. If a diagnostic or therapeutic use is anticipated, then a license must be requested from the University of California. The availability of such diagnostic and therapeutic use license(s) cannot be guaranteed from the University of California.

LK 4310



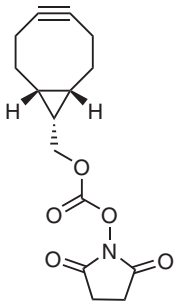
Amino-TEG azide

MF:	$C_8H_{18}N_4O_3$	500 mg	$120
MW:	218.25	1 g	$175
CAS No:	134179-38-7		

A bi-functional linker from our Click-mates™ collection with potential applications in oligonucleotide ligations.

The purchase of these products for use in applications relating to copper catalyzed azide-alkyne cycloaddition chemistry ("Click Chemistry") includes a limited, nontransferable license to intellectual property owned by TSRI to use this product solely for internal non-commercial research activities and specifically excludes clinical, therapeutic, or diagnostic use in humans or animals. Information regarding a license for commercial use in Click Chemistry may be obtained directly from The Scripps Research Institute, 10550 N. Torrey Pines Rd., La Jolla, CA 92037, or by contacting 858-784-8140 or click@scripps.edu.

LK 4320



Click-easy™ BCN *N*-hydroxysuccinimide ester I

MF:	$C_{15}H_{17}NO_5$	50 mg	$185
MW:	291.30	100 mg	$354
CAS No:	1352642-02-4		

A state-of-the-art cycloalkyne for catalyst free strain-promoted azide-alkyne cycloadditions.

BCN reagents are sold for research use only under a licensing agreement with Synaffix, B.V.

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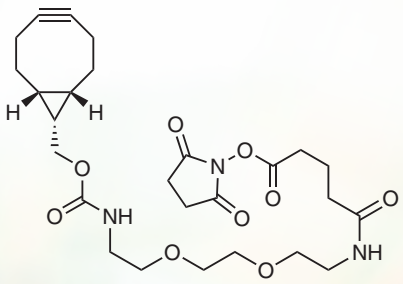
LK 4330



Click-easy™ BCN *N*-hydroxysuccinimide ester II

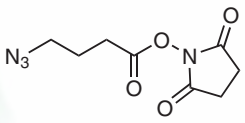
MF: $C_{26}H_{37}N_3O_9$
MW: **535.59**
CAS No: **1314639-16-1**

10 mg	**$150**
25 mg	**$220**

A state-of-the-art cycloalkyne for catalyst free strain-promoted azide-alkyne cycloadditions.

BCN reagents are sold for research use only under a licensing agreement with Synaffix, B.V.

LK 4340



4-Azidobutyric acid *N*-hydroxysuccinimide ester

MF: $C_8H_{10}N_4O_4$
MW: **226.19**
CAS No: **943858-70-6**

10 mg	**$135**
25 mg	**$300**

A state-of-the-art cycloalkyne for catalyst free strain-promoted azide-alkyne cycloadditions.

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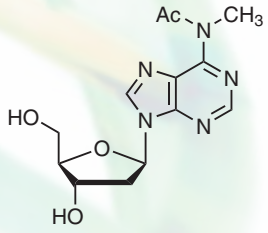
PR 3006

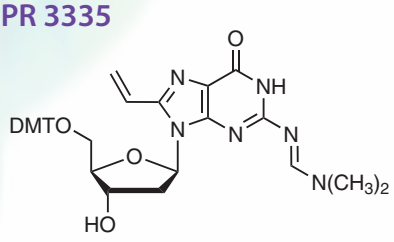


6-*N*-Acyl-6-*N*-methyl-2′-deoxyadenosine

MF: $C_{13}H_{17}N_5O_4$
MW: **307.31**
CAS No: **None Assigned**

25 mg	**$168**
100 mg	**$595**

PR 3335



5′-*O*-Dimethoxytrityl-N^2-(dimethylaminomethylidene)-8-ethenyl-2′-deoxyguanosine

MF: $C_{36}H_{38}N_6O_6$
MW: **650.72**
CAS No: **1101864-07-6**

100 mg	**$335**
1 g	**$2,450**

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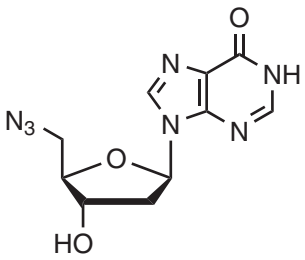
PR 3464

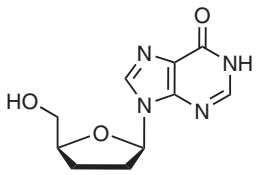


5′-Azido-2′,5′-dideoxyinosine

MF: $C_{10}H_{11}N_7O_3$
MW: **277.24**
CAS No: **496809-83-7**

5 mg	**$75**
25 mg	**$257**

PR 3727

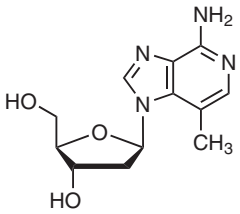


2′,3′-Dideoxyinosine

MF: $C_{10}H_{12}N_4O_3$
MW: **236.23**
CAS No: **69655-05-6**

100 mg	**$75**
1 g	**$225**
5 g	**$890**

PRA 10013

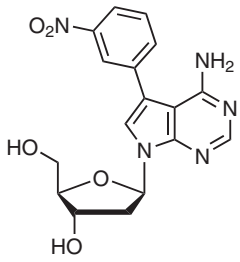


3-Deaza-3-methyl-2′-deoxyadensine

MF: $C_{12}H_{16}N_4O_3$
MW: **264.28**
CAS No: **515815-12-0**

10 mg	**$95**
25 mg	**$215**

PRA 10032



7-(3-Nitrophenyl)-7-deaza-2′-deoxyadenosine

MF: $C_{17}H_{17}N_5O_5$
MW: **371.35**
CAS No: **None Assigned**

10 mg	**$119**
50 mg	**$495**

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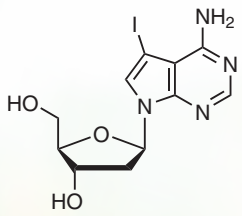
PRA 10036

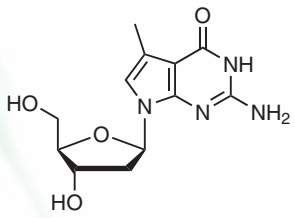


5-Iodo-2′-deoxytubercidin

MF: $C_{11}H_{13}IN_4O_3$
MW: **376.15**
CAS No: **166247-63-8**

10 mg	**$87**
50 mg	**$355**

PRA 10042

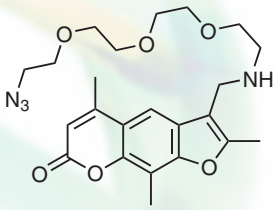


7-Methyl-7-deaza-2′-deoxyguanosine

MF: $C_{12}H_{16}N_4O_4$
MW: **280.29**
CAS No: **90358-21-7**

10 mg	**$107**
50 mg	**$375**

PS 5030



Psoralen-TEG azide

MF: $C_{23}H_{30}N_4O_6$
MW: **458.22**
CAS No: **1352815-11-2**

1 mg	**$210**
5 mg	**$450**

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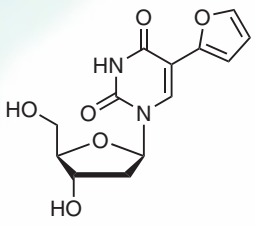
PY 7053

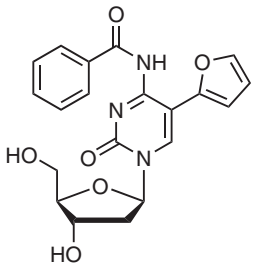


5-Furan-2-yl dU

MF: $C_{13}H_{14}N_2O_6$
MW: **294.26**
CAS No: **92233-50-6**

25 mg	**$95**
100 mg	**$345**

PY 7054

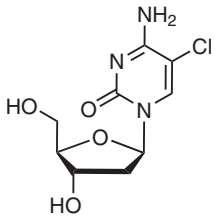


N^4-Benzoyl-5-furan-2-yl dC

MF: $C_{20}H_{19}N_3O_6$
MW: **397.38**
CAS No: **1119734-59-6**

25 mg	**$125**
100 mg	**$395**

PY 7114

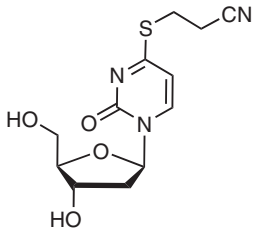


5-Chloro-2′-deoxycytidine

MF: $C_9H_{12}ClN_3O_5$
MW: **261.66**
CAS No: **32387-56-7**

25 mg	**$295**
100 mg	**$985**

PY 7212

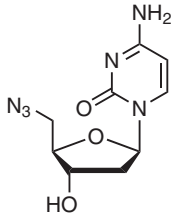


S^4-(2-Cyanoethyl)-4-thio-2′-deoxyuridine

MF: $C_{12}H_{15}N_3O_4S$
MW: **297.33**
CAS No: **136055-15-7**

10 mg	**$66**
100 mg	**$536**

PY 7219



5′-Azido-2′,5′-dideoxycytidine

MF: $C_9H_{12}N_6O_3$
MW: **252.23**
CAS No: **4803-88-7**

25 mg	**$98**
100 mg	**$345**

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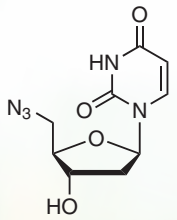
PY 7276

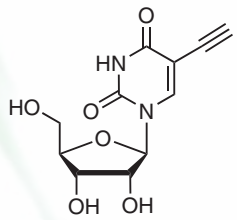


5′-Azido-2′,5′-dideoxyuridine

MF: $C_9H_{11}N_5O_4$
MW: **253.21**
CAS No: **35959-37-6**

25 mg	**$98**
100 mg	**$345**

PY 7563

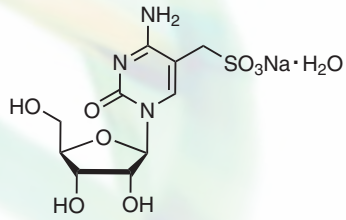


5-Ethynyl uridine

MF: $C_{11}H_{12}N_2O_6$
MW: **268.22**
CAS No: **69075-42-9**

10 mg	**$151**
100 mg	**$1220**

PY 7586

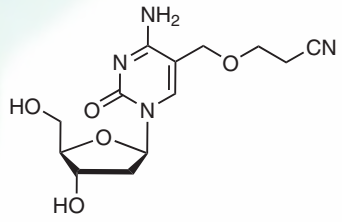


Cytidin-5-yl-methanesulfonate sodium salt hydrate

MF: $C_{10}H_{16}N_3NaO_9S$
MW: **377.30**
CAS No: **None Assigned**

50 mg	**$525**
100 mg	**$897**

PY 7587



5-[(2-Cyanoethoxy)methyl]-2′-deoxycytidine

MF: $C_{13}H_{18}N_4O_5$
MW: **310.31**
CAS No: **188411-05-4**

10 mg	**$210**
50 mg	**$750**

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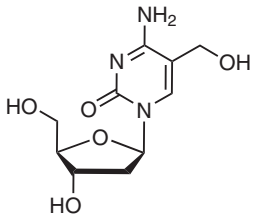
PY 7588

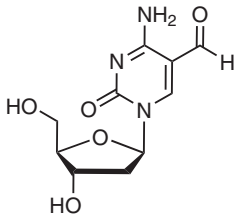


5-Hydroxymethyl-2′-deoxycytidine

MF: $C_{10}H_{15}N_3O_5$
MW: **257.24**
CAS No: **7226-77-9**

10 mg	**$245**
50 mg	**$875**

PY 7589

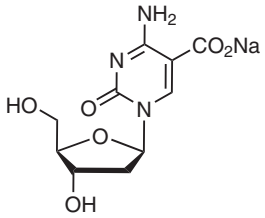


5-Formyl-2′-deoxycytidine

MF: $C_{10}H_{13}N_3O_5$
MW: **255.03**
CAS No: **137017-45-9**

5 mg	**$185**
10 mg	**$315**

PY 7593

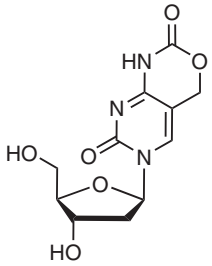


2′-Deoxycytidine-5-Carboxylic acid sodium salt

MF: $C_{10}H_{12}N_3NaO_6$
MW: **293.21**
CAS No: **1009808-6-2-1 (negative ion)**

25 mg	**$147**
100 mg	**$335**

PY 7594



5-Hydroxymethyl-2′deoxycytidine cyclic carbamate

MF: $C_{11}H_{13}N_3O_6$
MW: **283.24**
CAS No: **1257247-41-8**

10 mg	**$150**
50 mg	**$525**

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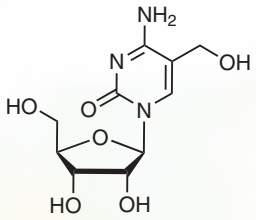
PY 7596

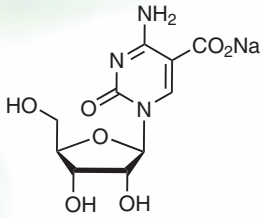


5-Hydroxymethylcytidine

MF: $C_{10}H_{15}N_3O_6$
MW: **273.24**
CAS No: **19235-17-7**

50 mg	**$295**
100 mg	**$495**

PY 7598

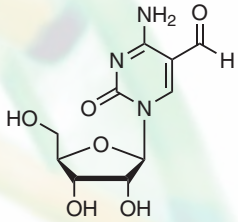


Cytidine-5-carboxylic adic, sodium salt

MF: $C_{10}H_{12}N_3NaO_7$
MW: **309.21**
CAS No: **64623-37-6 (parent acid)**

10 mg	**$225**
50 mg	**$690**

PY 7599

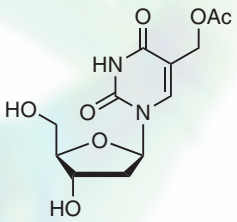


5-Formylcytidine

MF: $C_{10}H_{13}N_3O_6$
MW: **271.23**
CAS No: **148608-53-1**

5 mg	**$191.50**
10 mg	**$325**

PY 7604

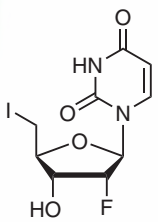


5-Acetoxymethyl-2′-deoxyuridine

MF: $C_{12}H_{16}N_2O_7$
MW: **300.26**
CAS No: **148380-55-6**

25 mg	**$315**
100 mg	**$1,095**

PY 7612



2′-Fluoro-5′-iodo deoxyuridine

MF: $C_9H_{10}FIN_2O_4$
MW: **356.09**
CAS No: **211694-25-6**

25 mg	**$88**
100 mg	**$297**

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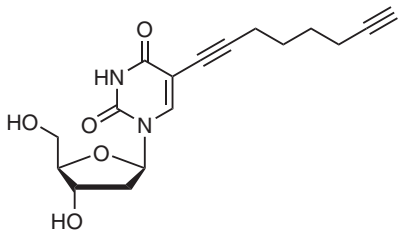
PY 7713



5-(1,7-Octadiyn-1-yl)-2′-deoxyuridine

MF: $C_{17}H_{20}N_2O_5$
MW: **332.35**
CAS No: **909398-18-1**

50 mg	**$68**
250 mg	**$225**

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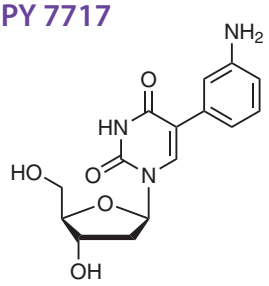
PY 7717

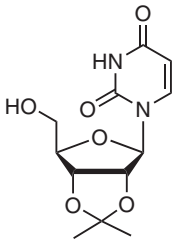


5-(3-Aminophenyl)-2′-deoxyuridine

MF: $C_{15}H_{17}N_3O_5$
MW: **319.31**
CAS No: **188482-60-2**

25 mg	**$235**
100 mg	**$795**

PY 7781

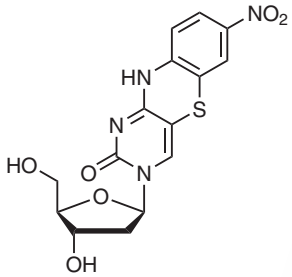


2′3′-*O*-Isopropylidene uridine

MF: $C_{12}H_{16}N_2O_6$
MW: **284.27**
CAS No: **362-43-6**

5 g	**$95**
25 g	**$345**

PYA 11115



tC_{nitro} nucleoside

MF: $C_{15}H_{14}N_4O_6S$
MW: **378.36**
CAS No: **1139889-25-0**

5 mg	**$138**
25 mg	**$575**

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