

Click Chemistry Toolbox

- Click Chemistry Biotinylation Reagents
- Fluorescent Click Chemistry Reagents
- Fluorescent Picolyl Azides
- Metabolic Labeling Reagents
- Cleavable Click Chemistry Biotin Probes
- Biotin/Streptavidin-Free Enrichment Kits and Media



Introducing
Alexa Fluor[®] Dyes analogs 

Largest section of Click Chemistry AF[™] Dyes
(Alexa Fluor[®] Dyes analogs) available from our
Click Chemistry Toolbox

2018/19

General Information:

If you have a technical question about a product you received or have seen in the catalog, please send an e-mail to inquiries@clickchemistrytools.com or call us at (480)–584–3340.

Material Safety Data Sheets

MSDS are available upon request.

Certificate of Analysis

A certificate of analysis (COA) will be sent with your product(s) if requested. The COA provides the test method used, the results, and the purity level of the product.

Re–Stocking Fee

Due to the cost of re–qualifying product, there is a charge of \$250 for each previously un–opened vial/bottle that is returned. No previously opened product will be accepted.

Please note there are no returns on bulk quantity purchases.

Ordering Information:

All orders are accepted by **e–mail**, **fax** or **online**. We accept telephone technical inquiries **between 9AM and 5PM**, PST, Monday through Friday. The main contact information is listed below:

e–mail: sales@clickchemistrytools.com

Tel: 480–584–3340

Fax: 866–717–2037

Please include the following information to expedite your order:

Company name

Billing and shipping addresses and phone number

P.O # or Credit Card Information

Telephone number

Catalog number, product description, size, and quantity

Payment

We accept MasterCard, Visa, American Express, USD check, and Bank Transfers. Some international orders may require full or partial pre–payment.

Shipping and Storage Details

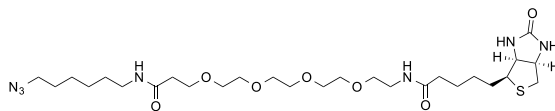
Products will usually ship the same day as ordered, if it is received by 3:00pm EST. We ship most products by FedEx overnight. Storage details will be shipped with each product. We recommend storing our products in the freezer at –20° for long term storage. Orders outside the United States are shipped by FedEx International Priority.



Biotin – Azide

CAS: 1006592-62-6
 MW: 615.34
 Solubility: DMSO, DMF, MeOH
 Description:

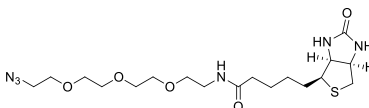
Exact replacement of Invitrogen's Biotin Azide (PEG4 carboxamide-6-Azidohexanyl Biotin), Catalog number: B10184



Catalog#	Unit	Price
1265 – 5	5 mg	\$79
1265 – 25	25 mg	\$329
1265 – 100	100 mg	\$1079

Biotin – PEG3 – Azide

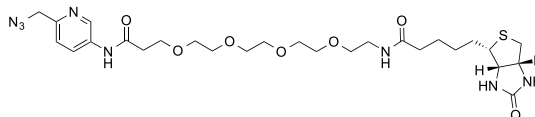
CAS: 875770-36-6
 MW: 444.55
 Solubility: DMSO, DMF, MeOH
 Description: Biotinylation reagent



Catalog#	Unit	Price
AZ104 – 25	25 mg	\$79
AZ104 – 100	100 mg	\$179
AZ104 – 1000	1000 mg	\$1079

Biotin Picolyl Azide

CAS: n/a
 MW: 622.74
 Solubility: DMSO, DMF, MeOH
 Description: Biotinylation reagent with superior in copper-catalyzed click reactions.

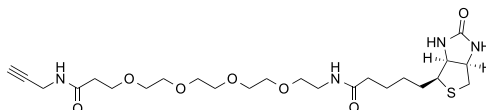


Catalog#	Unit	Price
1167 – 5	5 mg	\$129
1167 – 25	25 mg	\$295
1167 – 100	100 mg	\$895

Biotin – Alkyne

CAS: 1006592-45-5
 MW: 528.66
 Solubility: DMSO, DMF, THF, DCM
 Description:

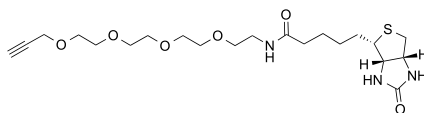
Exact replacement of Invitrogen's Biotin Alkyne (PEG4 carboxamide-Propargyl Biotin), Catalog number: B10185



Catalog#	Unit	Price
1266 – 5	5 mg	\$79
1266 – 25	25 mg	\$329
1266 – 100	100 mg	\$1095

Biotin – PEG4 – Alkyne

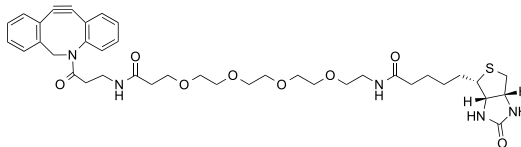
CAS: 1262681-31-1
 MW: 457.58
 Solubility: DMSO, DMF, THF, DCM
 Description: Biotinylation reagent



Catalog#	Unit	Price
TA105 – 25	25 mg	\$95
TA105 – 100	100 mg	\$195
TA105 – 1000	1000 mg	\$1095

DBCO – PEG4– Biotin

CAS: 1255942-07-4
 MW: 749.92
 Solubility: DMSO, DMF, THF, MeOH
 Description: Biotinylation reagent for Cu-free click chemistry



Catalog#	Unit	Price
A105 – 10	10 mg	\$149
A105 – 25	25 mg	\$279
A105 – 100	100 mg	\$895

Can't find a product?

Visit www.clickchemistrytools.com for a full list of Click Chemistry Biotin Probes

AF™ Azides

Click Chemistry Tools offers 'generic versions' of Alexa Fluor® Dyes. Most AF™ Dyes are structurally identical to brand name Alexa Fluor® Dyes. The photophysical properties of our AF™ Dyes are also an exact match to Alexa Fluor® Dyes. Now researchers don't have to choose between outstanding performance of Alexa Fluor® Dyes and reasonable price, Click Chemistry Tools' AF™ Dyes offer the best of both worlds.

Description	Ex/Em	Emission Color	Pkg. Size	Product #	Price
AF™ 350 – Azide	346/445	Blue	1 mg	1267 – 1	\$95
			5 mg	1267 – 5	\$295
			25 mg	1267 – 25	\$895
AF™ 405 – Azide	399/422	Blue	1 mg	1307 – 1	\$129
			5 mg	1307 – 5	\$395
			25 mg	1307 – 25	\$1095
AF™ 488 – Azide	494/517	Green	1 mg	1275 – 1	\$115
			5 mg	1275 – 5	\$395
			25 mg	1275 – 25	\$1095
AF™ 532 – Azide	530/555	Orange	1 mg	1279 – 1	\$129
			5 mg	1279 – 5	\$395
			25 mg	1279 – 25	\$1295
AF™ 546 – Azide	554/574	Orange	1 mg	1283 – 1	\$129
			5 mg	1283 – 5	\$395
			25 mg	1283 – 25	\$1095
AF™ 555 – Azide	555/565	Red	1 mg	1287 – 1	\$129
			5 mg	1287 – 5	\$395
			25 mg	1287 – 25	\$1095
AF™ 568 – Azide	578/602	Red	1 mg	1291-1	\$129
			5 mg	1291-5	\$395
			25 mg	1291-25	\$1095
AF™ 594 – Azide	590/617	Near IR	1 mg	1295-1	\$129
			5 mg	1295-5	\$395
			25 mg	1295-25	\$1095
AF™ 647 – Azide	650/665	Near IR	1 mg	1299-1	\$129
			5 mg	1299-5	\$395
			25 mg	1299-25	\$1095

Classic Fluorescent Azides

Description	Ex/Em	Emission Color	Pkg. Size	Product #	Price
OG 488 – Azide Replacement of Invitrogen’s Oregon Green® 488 – Azide (Catalog number: O10180)	496/524	Green	1 mg	1264-1	\$95
			5 mg	1264-5	\$295
			25 mg	1264-25	\$895
Carboxyrhodamine 110 – Azide	501/525	Green	1 mg	AZ105-1	\$95
			5 mg	AZ105-5	\$179
			25 mg	AZ105-25	\$479
TAMRA – Azide	545/565	Orange	1 mg	AZ109-1	\$95
			5 mg	AZ109-5	\$179
			25 mg	AZ109-25	\$479
5-TAMRA – Azide Replacement of Invitrogen’s Tetramethylrhodamine Azide (Catalog number: T10182).	545/565	Orange	1 mg	1245-1	\$75
			5 mg	1245-5	\$139
			25 mg	1245-25	\$395
			100 mg	1245-100	\$795
Cy3 – Azide	556/565	Red	1 mg	AZ119-1	\$115
			5 mg	AZ119-5	\$295
			25 mg	AZ119-25	\$690
Cy5 – Azide	647/661	Near IR	1 mg	AZ118-1	\$115
			5 mg	AZ118-5	\$295
			25 mg	AZ118-25	\$690
Cy5.5 – Azide	678/694	Near IR	1 mg	1059-1	\$115
			5 mg	1059-5	\$295
			25 mg	1059-25	\$690
Cy7 – Azide	754/771	Near IR	1 mg	1025-1	\$115
			5 mg	1052-5	\$295
			25 mg	1052-25	\$690

Next Generation Azide Probes

Recent advances in design of copper chelating ligands such as THPTA or BTAA improved kinetics of copper-catalyzed azide-alkyne cycloaddition reaction, or CuAAC and greatly increased sensitivity of alkyne detection. Despite the recent improvements CuAAC is not without limitations. The reaction kinetics still remains slow for detection of low abundance targets. In addition, to achieve sufficient labeling efficiency many protocols call for the use of relatively high concentrations of azide reagent (up to 50 μM), and copper (up to 2 mM), which might result in high background signal due to non-specific covalent labeling.

The next step in improving kinetics of CuAAC was introduction of copper chelating moiety into azide reporter to raise the effective Cu(I) concentration at reaction site (Figure 2)

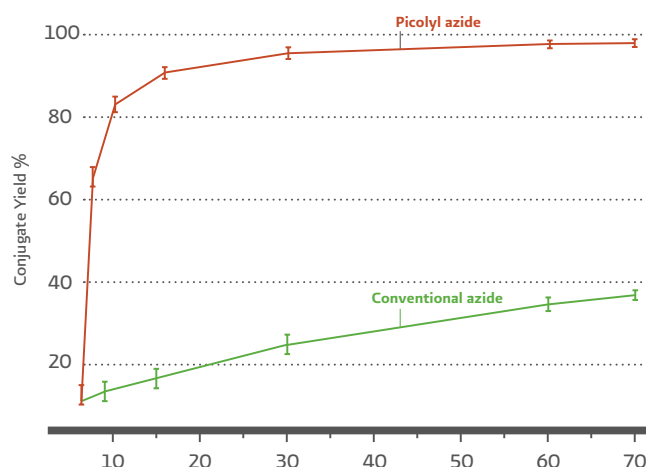
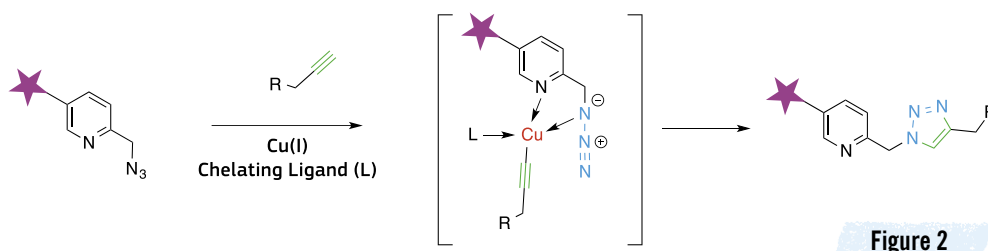


Figure 1. Kinetic comparison of chelating azide and non-chelating conventional azide

The rate of CuAAC reaction depends on concentrations of all reagents, including copper, thus the raise of the effective copper concentration at the reaction site dramatically increase the rate of CuAAC reaction without the need to increase concentration of azide reagent and copper.

The only practically useful azide bearing an internal copper-chelating motif that has been reported to date are electron-donating picolyl azides. The effect of internal copper-chelating motif on the kinetics of CuAAC, and consequently on sensitivity, is so great that it leads to several fold increase in signal intensity compared to conventional, non-chelating azides. This will be of special value for the detection of low abundance targets.

In addition to the gain in sensitivity, the use of picolyl-containing reporters allows for at least a tenfold reduction in the concentration of the copper catalyst without sacrificing sensitivity of alkyne detection.

Selected References:

- Jiang, H., et al. (2014). Monitoring Dynamic Glycosylation in Vivo Using Supersensitive Click Chemistry. *Bioconjugate Chem.*, 25(4): 698-706.
- Uttamapinant, C., et al. (2012). Fast, Cell-Compatible Click Chemistry with Copper-Chelating Azides for Biomolecular Labeling. *Angew. Chem. Int. Ed.*, 51(24): 5852–5856. A highly sensitive protocol for microscopy of alkyne lipids and fluorescently tagged or immunostained proteins. *J. Lipid. Res.*, 57(10):1934-1947.

Click Chemistry Tools offers the largest selection of picolyl azide conjugated to AF™ Dyes (generic Alexa Fluor® Dyes). Most AF™ Dyes are structurally identical to brand name Alexa Fluor® Dyes. Combination of exceptional reactivity of picolyl azide moiety with brightness AF™ Dyes makes these probes of special value not only for detection of low abundance target but also for all other applications where increased S/N ratio is great value.

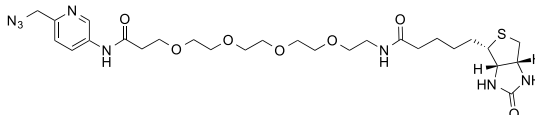
Description	Ex/Em	Emission Color	Pkg. Size	Product #	Price
AF™ 350 – Picolyl Azide	346/445	Blue	1 mg	1268-1	\$139
			5 mg	1268-5	\$395
			25 mg	1268-25	\$1095
AF™ 405 – Picolyl Azide	399/422	Green	1 mg	1308-1	\$139
			5 mg	1308-5	\$395
			25 mg	1308-25	\$1095
AF™ 488 – Picolyl Azide	494/517	Green	1 mg	1276-1	\$149
			5 mg	1276-5	\$395
			25 mg	1276-25	\$1195
AF™ 532– Picolyl Azide	530/555	Orange	1 mg	1280-1	\$149
			5 mg	1280-5	\$395
			25 mg	1280-25	\$1195
AF™ 546 – Picolyl Azide	554/574	Orange	1 mg	1284-1	\$149
			5 mg	1284-5	\$395
			25 mg	1284-25	\$1195
AF™ 555 – Picolyl Azide	555/565	Red	1 mg	1288-1	\$149
			5 mg	1288-5	\$395
			25 mg	1288-25	\$1195
AF™ 568 – Picolyl Azide	578/602	Red	1 mg	1292-1	\$149
			5 mg	1292-5	\$395
			25 mg	1292-25	\$1195
AF™ 594 – Picolyl Azide	590/617	Red	1 mg	1296-1	\$149
			5 mg	1296-5	\$395
			25 mg	1296-25	\$1195
AF™ 647 – Picolyl Azide	650/665	Near IR	1 mg	1300-1	\$149
			5 mg	1300-5	\$395
			25 mg	1300-25	\$1195

Fluorescent Picolyl Azides

Description	Ex/Em	Emission Color	Pkg. Size	Product #	Price
FAM Picolyl Azide (5/6-carboxyfluorescein)	496/521	Green	1 mg	1180-1	\$139
			5 mg	1180-5	\$295
			25 mg	1180-25	\$1095
5-TAMRA Picolyl Azide	545/565	Orange	1 mg	1254-5	\$139
			5 mg	1254-5	\$295
			25 mg	1254-25	\$795
Cy3 - Picolyl Azide	556/565	Red	1 mg	1178-1	\$145
			5 mg	1178-5	\$395
			25 mg	1178-25	\$975
Cy5 - Picolyl Azide	647/661	Near IR	1 mg	1177-1	\$145
			5 mg	1177-5	\$395
			25 mg	1177-25	\$975
Cy5.5 - Picolyl Azide	678/694	Near IR	1 mg	1182-1	\$145
			5 mg	1182-5	\$395
			25 mg	1182-25	\$1295
Cy7 - Picolyl Azide	754/771	Near IR	1 mg	1183-1	\$145
			5 mg	1183-5	\$395
			25 mg	1183-25	\$975

Biotin Picolyl Azide

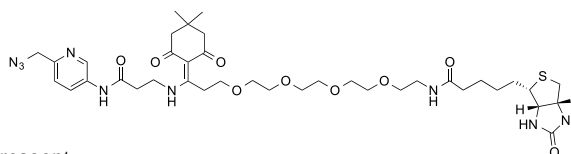
CAS:	n/a
MW:	622.74
Solubility:	DMSO, DMF, MeOH
Description:	Biotinylation reagent with superior in copper-catalyzed click reactions.



Catalog#	Unit	Price
1167-5	5 mg	\$129
1167-25	25 mg	\$295
1167-100	100 mg	\$895

Dde Biotin - Picolyl Azide

CAS:	n/a
MW:	815.40
Solubility:	DMSO, DMF
Description:	Cleavable biotinylation reagent



Catalog#	Unit	Price
1186-5	5 mg	\$129
1186-10	10 mg	\$225
1186-100	100 mg	\$1295



Click-&Go™ Plus AF Labeling Kit is general purpose labeling kit that is designed to perform a high sensitivity imaging of moderate-to-low abundance targets, compounds that are sensitive to copper, and for all other applications where increased sensitivity and faster reaction times is of great value. The labeling kit utilizes copper-chelating picolyl azide that dramatically accelerates the Cu(I)-catalyzed azide–alkyne cycloaddition (CuAAC) reaction under conditions relevant to biomolecular labeling.

In addition, the use of picolyl azide labeling reagent allows the modulation of copper levels in the click reaction by varying the amounts of CuSO₄ and copper protectant (chelator), thus minimizing the deleterious effects of copper without sacrificing reaction efficiency.

Each Click-&Go™ Plus Labeling Kit includes 100 µg of AF dye-picolyl azide (also known as Alexa Fluor® dye-picolyl azide) and all of the reagents required to create a reaction cocktail with the optimal copper and chelate concentration for any click chemistry-based labeling or detection application.

Product #	Description	Pkg. Size	Price
1311	Click-&Go™ Plus Biotin Labeling Kit	1 kit	\$189
1313	Click-&Go™ Plus AF™ 405 Labeling Kit	1 kit	\$189
1314	Click-&Go™ Plus AF™ 488 Labeling Kit	1 kit	\$189
1315	Click-&Go™ Plus AF™ 532 Labeling Kit	1 kit	\$189
1316	Click-&Go™ Plus AF™ 568 Labeling Kit	1 kit	\$189
1317	Click-&Go™ Plus AF™ 555 Labeling Kit	1 kit	\$189
1318	Click-&Go™ Plus AF™ 568 Labeling Kit	1 kit	\$189
1319	Click-&Go™ Plus AF™ 594 Labeling Kit	1 kit	\$189
1320	Click-&Go™ Plus AF™ 647 Labeling Kit	1 kit	\$189

AF™ Alkynes

Click Chemistry Tools offers the largest selection of terminal alkynes conjugated to AF™ Dyes (generic Alexa Fluor® Dyes). Most AF™ Dyes are structurally identical to brand name Alexa Fluor® Dyes. The photophysical properties of our AF™ Dyes are also an exact match to Alexa Fluor® Dyes. Now researchers don't have to choose between outstanding performance of Alexa Fluor® Dyes and reasonable price, Click Chemistry Tools' AF™ Dyes offer the best of both worlds.

Description	Ex/Em	Emission Color	Pkg. Size	Product #	Price
AF™ 350 – Alkyne	346/445	Blue	1 mg	1269-1	\$95
			5 mg	1269-5	\$295
			25 mg	1269-25	\$895
AF™ 405 – Alkyne	399/422	Green	1 mg	1309-1	\$129
			5 mg	1309-5	\$395
			25 mg	1309-25	\$1095
AF™ 488 – Alkyne	494/517	Green	1 mg	1277-1	\$129
			5 mg	1277-5	\$395
			25 mg	1277-25	\$1095
AF™ 532– Alkyne	530/555	Orange	1 mg	1281-1	\$129
			5 mg	1281-5	\$395
			25 mg	1281-25	\$1095
AF™ 546 – Alkyne	554/574	Orange	1 mg	1285-1	\$129
			5 mg	1285-5	\$395
			25 mg	1285-25	\$1095
AF™ 555 – Alkyne	555/565	Red	1 mg	1289-1	\$129
			5 mg	1289-5	\$395
			25 mg	1289-25	\$1095
AF™ 568 – Alkyne	578/602	Red	1 mg	1293-1	\$129
			5 mg	1293-5	\$395
			25 mg	1293-25	\$1095
AF™ 594 – Alkyne	590/617	Red	1 mg	1297-1	\$129
			5 mg	1297-5	\$395
			25 mg	1297-25	\$1095
AF™ 647 – Alkyne	650/665	Near IR	1 mg	1301-1	\$129
			5 mg	1301-5	\$395
			25 mg	1301-25	\$1095

Fluorescent Alkynes

Description	Ex/Em	Emission Color	Pkg. Size	Product #	Price
Carboxyrhodamine 110 – Alkyne	501/525	Green	1 mg	TA106-1	\$95
			5 mg	TA106-5	\$179
			25 mg	TA106-25	\$419
TAMRA – Alkyne	545/565	Orange	1 mg	TA108-1	\$105
			5 mg	TA108-5	\$179
			25 mg	TA108-25	\$419
5-TAMRA – Alkyne Replacement of Invitrogen's Tetramethylrhodamine Alkyne (Catalog number: T10183).	545/565	Orange	1 mg	1255-1	\$75
			5 mg	1255-5	\$139
			25 mg	1255-25	\$395
			100 mg	1255-100	\$795
Cy3 – Alkyne	556/565	Red	1 mg	TA117-1	\$115
			5 mg	TA117-5	\$295
			25 mg	TA117-25	\$790
Cy5 – Alkyne	647/661	Near IR	1 mg	TA116-1	\$115
			5 mg	TA116-5	\$295
			25 mg	TA116-25	\$790
Cy5.5 – Alkyne	678/694	Near IR	1 mg	1060-1	\$105
			5 mg	1060-5	\$295
			25 mg	1060-25	\$1095
Cy7 – Alkyne	753/775	Near IR	1 mg	1053-1	\$105
			5 mg	1053-5	\$295
			25 mg	1053-25	\$895

AF™ DBCO for Copper-free Click Chemistry

Click Chemistry Tools offers the largest selection of fluorescent probes for copper-less azide imaging. Our section of fluorescent probes includes AF™ Dyes, and classic dyes conjugated to DBCO alkynes. Most AF™ Dyes are structurally identical to brand name Alexa Fluor® Dyes. The photophysical properties of our AF™ Dyes are also an exact match to Alexa Fluor® Dyes. Now researchers don't have to choose between outstanding performance of Alexa Fluor® Dyes and reasonable price, Click Chemistry Tools' AF™ Dyes offer the best of both worlds.

Description	Ex/Em	Emission Color	Pkg. Size	Product #	Price
AF™ 405 – DBCO	499/422	Blue	1 mg	1269-1	\$95
			5 mg	1269-5	\$295
			25 mg	1269-25	\$895
AF™ 430 – DBCO	430/545	Green	1 mg	1273-1	\$129
			5 mg	1273-5	\$395
			25 mg	1273-25	\$1095
AF™ 488 – DBCO	494/517	Green	1 mg	1277-1	\$129
			5 mg	1277-5	\$395
			25 mg	1277-25	\$1095
AF™ 532– DBCO	530/555	Orange	1 mg	1281-1	\$129
			5 mg	1281-5	\$395
			25 mg	1281-25	\$1095
AF™ 546 – DBCO	554/574	Orange	1 mg	1285-1	\$129
			5 mg	1285-5	\$395
			25 mg	1285-25	\$1095
AF™ 555 – DBCO	555/565	Red	1 mg	1289-1	\$129
			5 mg	1289-5	\$395
			25 mg	1289-25	\$1095
AF™ 568 – DBCO	578/602	Red	1 mg	1293-1	\$129
			5 mg	1293-5	\$395
			25 mg	1293-25	\$1095
AF™ 594 – DBCO	590/617	Red	1 mg	1297-1	\$129
			5 mg	1297-5	\$395
			25 mg	1297-25	\$1095
AF™ 647 – DBCO	650/665	Near IR	1 mg	1301-1	\$129
			5 mg	1301-5	\$395
			25 mg	1301-25	\$1095

Click-&-Go™ Protein Reaction Buffer Kit

The Click-&-Go™ Protein Reaction Buffer Kit provides researchers everything required to perform the click reaction on azide or alkyne tagged proteins with the corresponding click detection reagent for subsequent downstream analysis.

The performance and components of this kit are identical to Click-iT® Protein Reaction Buffer Kit from Thermo Fisher Scientific (Invitrogen).



Product #	Description	Pkg. Size	Price
1262	Click-&-Go™ Protein Reaction Buffer Kit	1 kit	\$129

Click-&-Go™ Cell Reaction Buffer Kit

The Click-&-Go™ Cell Reaction Buffer Kit provides researchers everything required to perform the click reaction on cells tagged with an azide or alkyne and with the corresponding click detection reagent for subsequent downstream analysis.

The performance and components of this kit are identical to Click-iT® Protein Reaction Buffer Kit from Thermo Fisher Scientific (Invitrogen).

Product #	Description	Pkg. Size	Price
1263	Click-&-Go™ Cell Reaction Buffer Kit	1 kit	\$129

Click Chemistry Kit and Auxiliary Reagents

Click-&Go™ Click Chemistry Reaction Buffer Kit

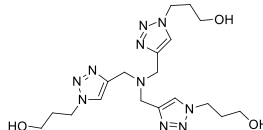
General purpose, all-inclusive kit provides researchers everything required to perform copper catalyzed click reaction between terminal alkyne and azide in aqueous or partially organic media. The kit includes sufficient reagents are provided for either 25 or 500 labeling reactions.

Product #	Description	Pkg. Size	Price
1001	Click-&Go™ Click Chemistry Reaction Buffer Kit *25 labeling reactions*	1 kit	\$135
1321	Click-&Go™ XL Click Chemistry Reaction Buffer Kit *500 labeling reactions*	1 kit	\$895

Click Chemistry Auxiliary Reagents

THPTA

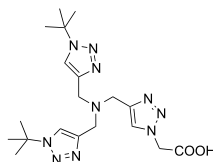
CAS: 760952-88-3
MW: 434.50
Solubility: Water, DMSO, DMF
Description: Water-soluble chelating agent



Catalog#	Unit	Price
1010 – 100	100 mg	\$75
1010 – 500	500 mg	\$239
1010 – 1000	1000 mg	\$395

BTAA

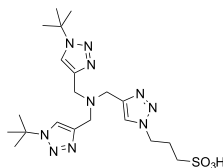
CAS: 1334179-85-9
MW: 430.52
Solubility: Water, DMSO, DMF
Description: Water-soluble chelating agent



Catalog#	Unit	Price
1236 – 100	100 mg	\$129
1236 – 500	500 mg	\$495
1236 – 1000	1000 mg	\$895

BTES

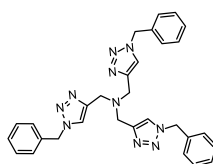
CAS: N/A
MW: 494.62
Solubility: Water, DMSO, DMF
Description: Water-soluble chelating agent



Catalog#	Unit	Price
1237 – 100	100 mg	\$149
1237 – 500	500 mg	\$595
1237 – 1000	1000 mg	\$1095

TBTA

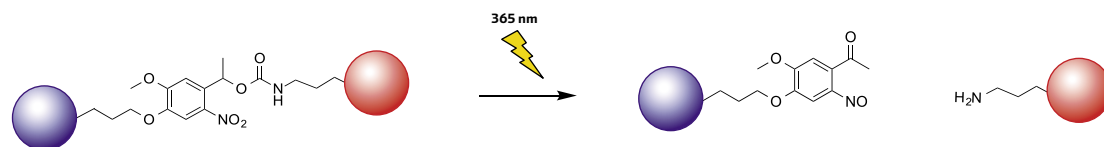
CAS: 510758-28-8
MW: 530.62
Solubility: Water, DMSO, DMF
Description: Chelating agent



Catalog#	Unit	Price
1061 – 100	100 mg	\$79
1061 – 500	500 mg	\$350
1061 – 1000	1000 mg	\$745

Cleavable Click Chemistry Biotin Probes

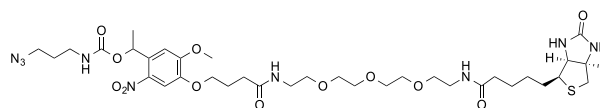
Photocleavable Biotin Probes



The cleavage of photolabile probes is achieved with near-UV (365 nm) irradiation using an inexpensive, low intensity lamp that can be found virtually in every laboratory. Selective, reagent-free release conditions and high stability in various chemical conditions are great advantages of photolabile probes.

PC Biotin – Azide

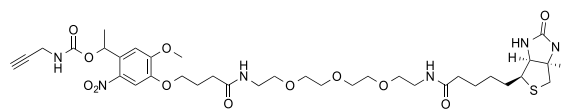
CAS: n/a
MW: 825.37
Solubility: DMSO, DMF, THF, DCM
Description: Photocleavable biotinylation reagent



Catalog#	Unit	Price
1119 – 10	10 mg	\$179
1119 – 25	25 mg	\$329
1119 – 100	100 mg	\$1095

PC Biotin – Alkyne

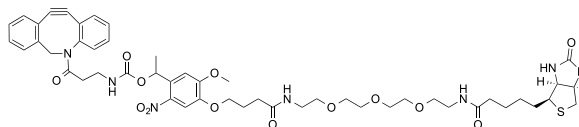
CAS: n/a
MW: 780.34
Solubility: DMSO, DMF, THF, DCM
Description: Photocleavable biotinylation reagent



Catalog#	Unit	Price
1118 – 10	10 mg	\$179
1118 – 25	25 mg	\$329
1118 – 100	100 mg	\$1095

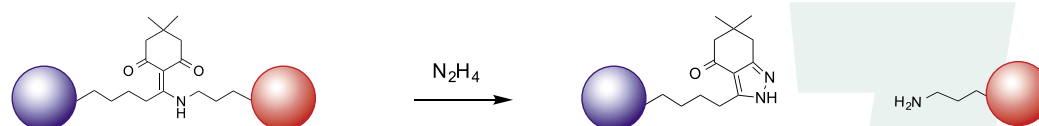
PC DBCO – Biotin

CAS: n/a
MW: 1002.14
Solubility: DMSO, DMF, THF, DCM
Description: Photocleavable biotinylation reagent



Catalog#	Unit	Price
1120 – 10	10 mg	\$179
1120 – 25	25 mg	\$329
1120 – 100	100 mg	\$1095

Dde Biotin Probes

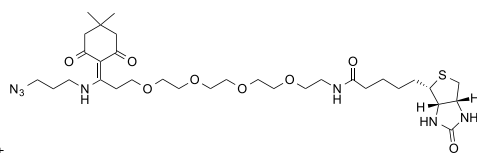


Novel probes based on Dde linker can be cleaved in under mild aqueous buffered conditions with 2% hydrazine to release a primary amine. Dde-based biotin probes are stable towards acidic or basic conditions, including generally applied buffer systems to which the biological sample may be exposed.

Cleavable Click Chemistry Biotin Probes

Dde Biotin – Azide

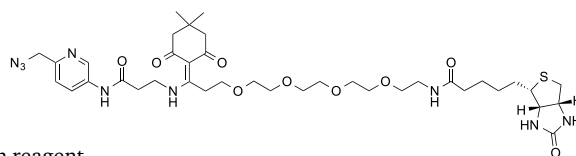
CAS: n/a
 MW: 695.37
 Solubility: DMSO, DMF
 Description: Cleavable biotinylation reagent



Catalog#	Unit	Price
1136 – 10	10 mg	\$179
1136 – 25	25 mg	\$329
1136 – 100	100 mg	\$1095

Dde Biotin – Picolyl Azide

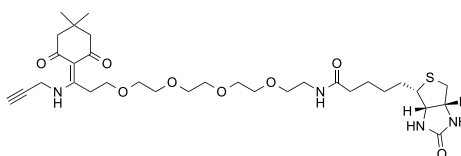
CAS: n/a
 MW: 815.40
 Solubility: DMSO, DMF
 Description: Cleavable biotinylation reagent



Catalog#	Unit	Price
1186 – 5	5 mg	\$129
1186 – 10	10 mg	\$225
1186 – 100	100 mg	\$1295

Dde Biotin – Alkyne

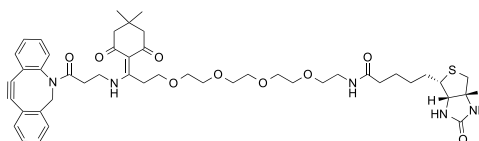
CAS: n/a
 MW: 650.83
 Solubility: DMSO, DMF
 Description: Cleavable biotinylation reagent



Catalog#	Unit	Price
1137 – 10	10 mg	\$179
1137 – 25	25 mg	\$329
1137 – 100	100 mg	\$1095

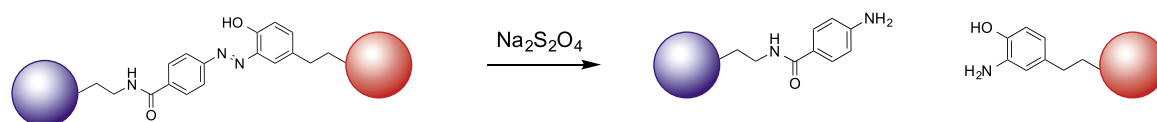
Dde DBCO – Biotin

CAS: n/a
 MW: 872.08
 Solubility: DMSO, DMF, THF, DCM
 Description: Cleavable biotinylation reagent



Catalog#	Unit	Price
1138 – 10	10 mg	\$179
1138 – 25	25 mg	\$329
1138 – 100	100 mg	\$1095

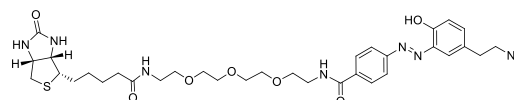
Diazo Biotin Probes



Diazobenzene-based biotin probes can be chemoselectively cleaved in under mild aqueous buffered conditions with 100 mM sodium dithionite. Diazobenzene linker is stable towards acidic or basic conditions, including generally applied buffer systems to which the biological sample may be exposed.

Diazo Biotin – Azide

CAS: 1339202-33-3
 MW: 711.83
 Solubility: DMSO, DMF
 Description: Cleavable biotinylation reagent

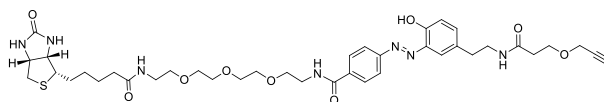


Catalog#	Unit	Price
1041 – 10	10 mg	\$179
1041 – 25	25 mg	\$329
1041 – 100	100 mg	\$1095

Cleavable Click Chemistry Biotin Probes

Diazo Biotin – Alkyne

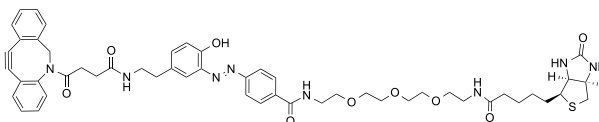
CAS: n/a
MW: 795.54
Solubility: DMSO, DMF
Description: Cleavable biotinylation reagent



Catalog#	Unit	Price
1042 – 10	10 mg	\$179
1042 – 25	25 mg	\$329
1042 – 100	100 mg	\$649

Diazo DBCO – Biotin

CAS: n/a
MW: 973.15
Solubility: DMSO, DMF, THF, DCM
Description: Cleavable biotinylation reagent



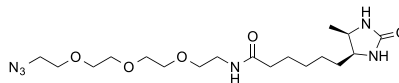
Catalog#	Unit	Price
1043 – 10	10 mg	\$179
1043 – 25	25 mg	\$329
1043 – 100	100 mg	\$1095

Desthiobiotin Probes

Desthiobiotin is a single-ring, sulfur-free analog of biotin that binds to streptavidin with nearly equal specificity but less affinity than biotin ($K_d = 10^{11}$ vs. 10^{15} M, respectively). Consequently, desthiobiotinylated proteins can be eluted readily and specifically from streptavidin affinity resin using mild conditions based on competitive displacement with free biotin.

Desthiobiotin – PEG3 – Azide

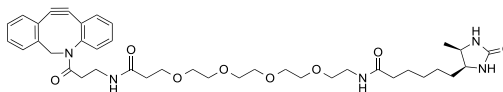
CAS: 1306615-47-3
MW: 414.50
Solubility: DMSO, DMF, THF, DCM
Description: Biotinylation reagent



Catalog#	Unit	Price
1107 – 10	10 mg	\$95
1107 – 25	25 mg	\$195
1107 – 100	100 mg	\$495

DBCO – PEG4 – Desthiobiotin

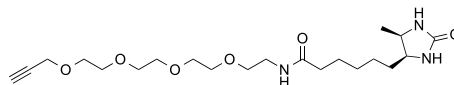
CAS: n/a
MW: 719.87
Solubility: DMSO, DMF, THF, DCM
Description: Biotinylation reagent



Catalog#	Unit	Price
1108 – 10	10 mg	\$179
1108 – 25	25 mg	\$329
1108 – 100	100 mg	\$1095

Desthiobiotin – PEG4 – Alkyne

CAS: n/a
MW: 427.23
Solubility: DMSO, DMF, THF, DCM
Description: Biotinylation reagent



Catalog#	Unit	Price
1109 – 10	10 mg	\$95
1109 – 25	25 mg	\$195
1109 – 100	100 mg	\$495

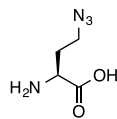
Can't find a product?

Let us know and our team of highly skilled chemists might add it to our catalog.

Metabolism Labeling Reagents

L-Azidohomoalanine (AHA)

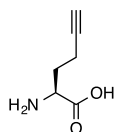
CAS: 942518-29-8
 MW: 180.58
 Solubility: Water, MeOH, DMSO



Catalog#	Unit	Price
1066 - 25	25 mg	\$129
1066 - 100	100 mg	\$235
1066 - 1000	1000 mg	\$495

L-Homopropargylglycine (HPG)

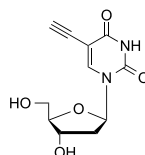
CAS: 98891-36-2
 MW: 127.14
 Solubility: Water, MeOH, DMSO



Catalog#	Unit	Price
1067 - 25	25 mg	\$95
1067 - 100	100 mg	\$195
1067 - 1000	1000 mg	\$1095

5-Ethynyl-2'-deoxyuridine (EdU)

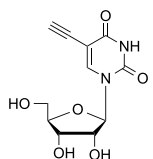
CAS: 61135-33-9
 MW: 252.23
 Solubility: Water, MeOH, DMSO



Catalog#	Unit	Price
1149 - 25	25 mg	\$45
1149 - 100	100 mg	\$95
1149 - 1000	1000 mg	\$565

5-Ethynyl Uridine (5-EU)

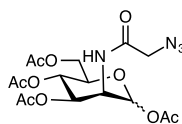
CAS: 69075-42-9
 MW: 268.22
 Solubility: Water, MeOH, DMSO



Catalog#	Unit	Price
1261 - 10	10 mg	\$79
1261 - 25	25 mg	\$179
1261 - 100	100 mg	\$495
1261 - 500	500 mg	\$1195

N-azidoacetylmannosamine-tetraacetylated (Ac₄ManNAz)

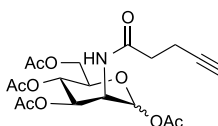
CAS: 361154-30-5
 MW: 430.37
 Solubility: DMSO, DMF, MeOH



Catalog#	Unit	Price
1084 - 5	5 mg	\$129
1084 - 25	25 mg	\$235
1084 - 100	100 mg	\$595

N-(4-pentynoyl)-mannosamine-tetraacetylated (Ac₄ManNAI)

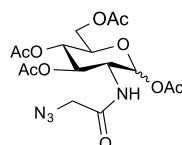
CAS: 935658-93-8
 MW: 427.40
 Solubility: DMSO, DMF, MeOH



Catalog#	Unit	Price
1154 - 5	5 mg	\$129
1154 - 25	25 mg	\$235
1154 - 100	100 mg	\$595

N-azidoacetylglucosamine-tetraacetylated (Ac₄GlcNAz)

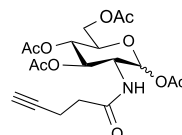
CAS: 98924-81-3
 MW: 430.37
 Solubility: DMSO, DMF, MeOH



Catalog#	Unit	Price
1085 - 5	5 mg	\$129
1085 - 25	25 mg	\$235
1085 - 100	100 mg	\$595

N-(4-pentynoyl)-glucosamine tetraacetylated (Ac₄GlcNAI)

CAS: 1361993-37-4
 MW: 427.40
 Solubility: DMSO, DMF, MeOH

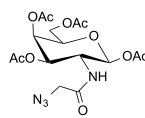


Catalog#	Unit	Price
1155 - 5	5 mg	\$129
1155 - 25	25 mg	\$235
1155 - 100	100 mg	\$595

Metabolizing Labeling Reagents

N-N-azidoacetylgalactosamine-tetraacylated (Ac₄GalNAz)

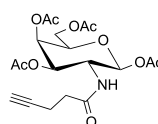
CAS: 653600-56-7
 MW: 430.37
 Solubility: DMSO, DMF, MeOH



Catalog#	Unit	Price
1086 - 5	5 mg	\$129
1086 - 25	25 mg	\$235
1086 - 100	100 mg	\$595

N-(4-pentynoyl)-galactosamine tetraacylated (Ac₄GalNAI)

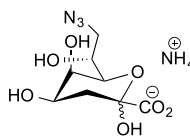
CAS: 1658458-26-4
 MW: 427.40
 Solubility: DMSO, DMF, MeOH



Catalog#	Unit	Price
1156 - 5	5 mg	\$129
1156 - 25	25 mg	\$235
1156 - 100	100 mg	\$595

Kdo-Azide

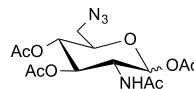
CAS: 1380099-68-2
 MW: 280.24
 Solubility: DMSO, DMF, MeOH



Catalog#	Unit	Price
1241 - 10	10 mg	\$195
1241 - 25	25 mg	\$395
1241 - 100	100 mg	\$895

6-azido-6-deoxy-N-acetyl-glucosamine triacylated (Ac₃-6AzGlcNAc)

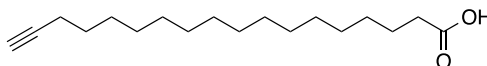
CAS: n/a
 MW: 372.33
 Solubility: DMSO, DMF, MeOH



Catalog#	Unit	Price
1258 - 5	5 mg	\$129
1258 - 25	25 mg	\$235
1258 - 100	100 mg	\$595

Alkynyl Stearic Acid

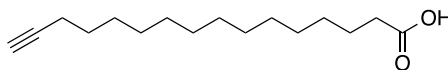
CAS: 34450-18-5
 MW: 280.45
 Solubility: DMSO, DMF, DCM, THF



Catalog#	Unit	Price
1166 - 5	5 mg	\$95
1166 - 25	25 mg	\$195
1166 - 100	100 mg	\$495

Alkynyl Palmitic Acid

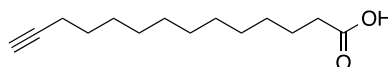
CAS: 99208-90-9
 MW: 252.39
 Solubility: DMSO, DMF, DCM, THF



Catalog#	Unit	Price
1165 - 5	5 mg	\$79
1165 - 25	25 mg	\$195
1165 - 100	100 mg	\$495

Alkynyl Myristic Acid

CAS: 82909-47-5
 MW: 224.32
 Solubility: DMSO, DMF, DCM, THF



Catalog#	Unit	Price
1164 - 5	5 mg	\$79
1164 - 25	25 mg	\$195
1164 - 100	100 mg	\$495

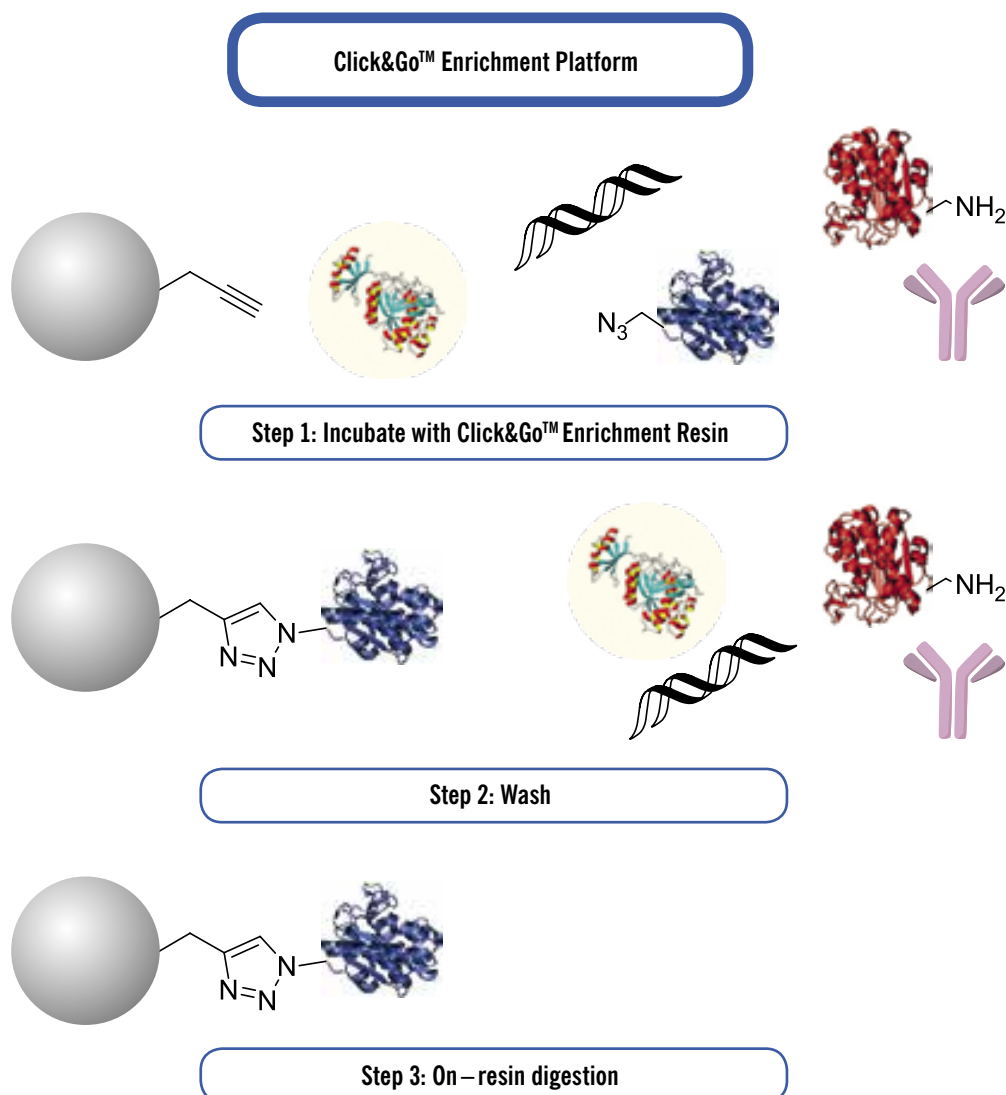
Enrichment Media and Kits

Overview

Click & Go™ enrichment kits is an efficient, biotin/streptavidin-free tool for capturing azide- or alkyne-tagged biomolecules onto an agarose resin via click reaction. Superior to biotin or lectin based enrichment approaches. Ideal for covalent capture of specific sub-classes of proteins which have been metabolically, enzymatically, or chemically azido- or alkyne-tagged onto a resin via Cu(I)-catalyzed azide-alkyne cycloaddition (CuAAC) or strain-promoted azide-alkyne cycloaddition (SPAAC) reactions. The resin containing the covalently attached proteins can be washed with high stringency, virtually eliminating any non-specifically bound proteins. Upon protease digestion, it yields a highly specific peptide pool that is ideal for mass spectroscopy (e.g., LC MS/MS) based analysis.

Highlights

- Far superior digest purity compared to biotin-SA digest
- Affinity resin is adaptable to column and batch affinity chromatography techniques
- Available as stand-alone reagent, or kit format
- Substantially reduced pull-out cost compare to conventional biotin-SA protocol



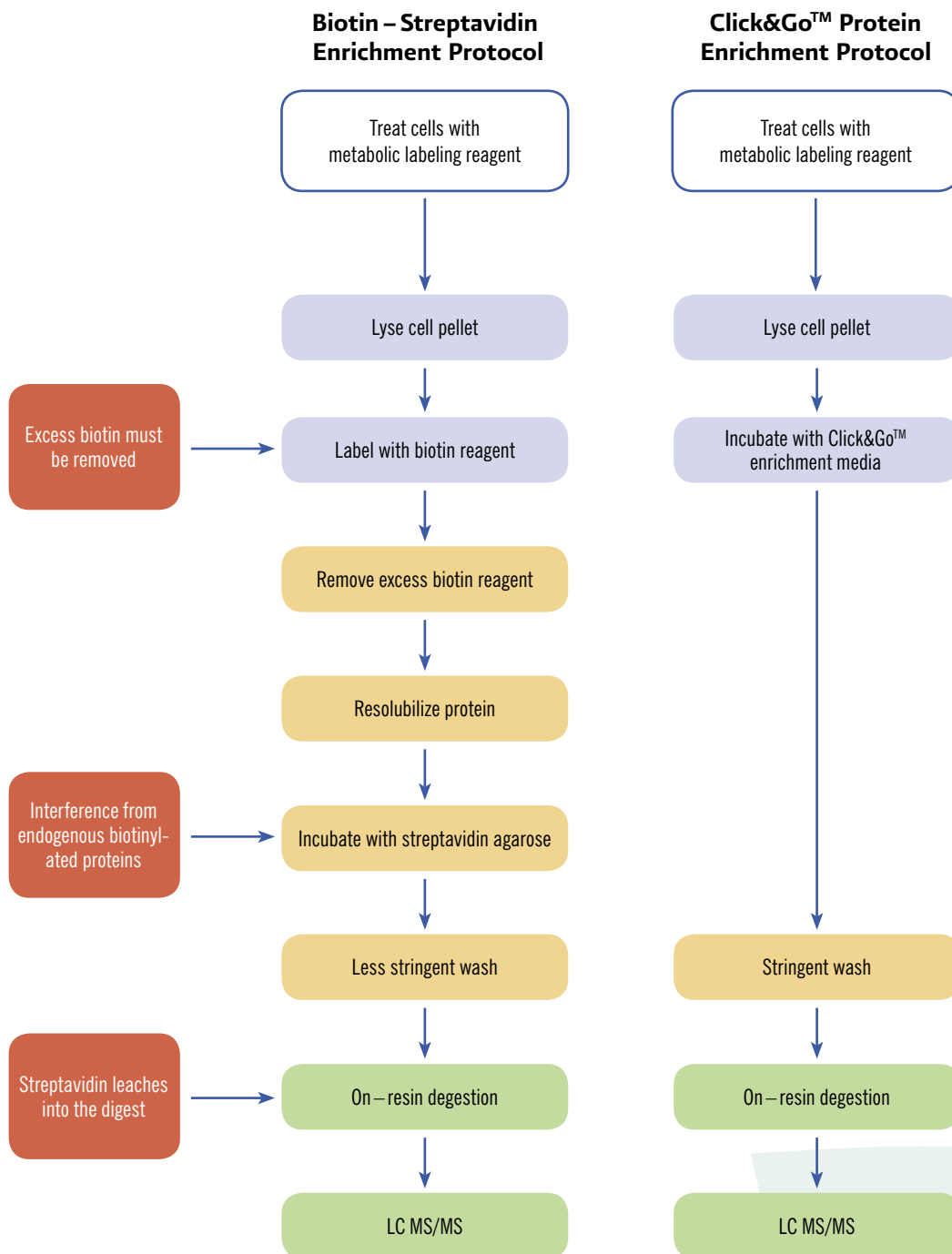


Figure 3. Schematic representation of pull-down workflows for biotin-streptavidin and Click&Go™ enrichment protocols.

Enrichment Media and Kits



Click-&-Go Protein Capture Kits

All-inclusive kits for covalent capture of azido- or alkyne-tagged proteins on a alkyne- or azide-agarose resin supplied. The kit contains specially formulated components to both catalyze click reaction and prevent non-specific binding to the alkyne-modified resins.

Highlights

- Easy to use
- Affordable
- No special equipment required
- The kit includes all necessary reagents

Product #	Description	Pkg. Size	Price
1039	Click-&-Go Protein Enrichment Kit *for capture of alkyne-modified proteins*	1 kit	\$375
1033	Click-&-Go Protein Enrichment Kit *for capture of azide-modified proteins*	1 kit	\$375

Click Chemistry Capture Kit

Click Chemistry Capture Kit provides all necessary auxiliary reagents* for covalent capture of metabolically, azido- or alkyne-tagged proteins. The kit contains specially formulated components to both catalyze click labeling reaction and prevent non-specific binding to alkyne- or azide-modified resins.

Highlights

- Can be used with alkyne- or azide-tagged biopolymers
- The kit includes all necessary reagents*

Product #	Description	Pkg. Size	Price
1065	Click Chemistry Capture Kit	1 kit	\$295

* enrichment media is not provided

Click Functionalized Agarose

Azide, Alkyne, or DBCO modified agarose used for covalent capturing alkyne-, or azide-tagged biopolymers.

Product #	Description	Pkg. Size	Price
1032-2	Alkyne agarose resin, 50% slurry	2 mL	\$129
1038	Azide agarose resin, 50% slurry	2 mL	\$129
1034	DBCO agarose resin, 50% slurry	2 mL	\$129

Highlights

- Alkyne-reactive
- Affinity resin is adaptable to column and batch affinity chromatography techniques

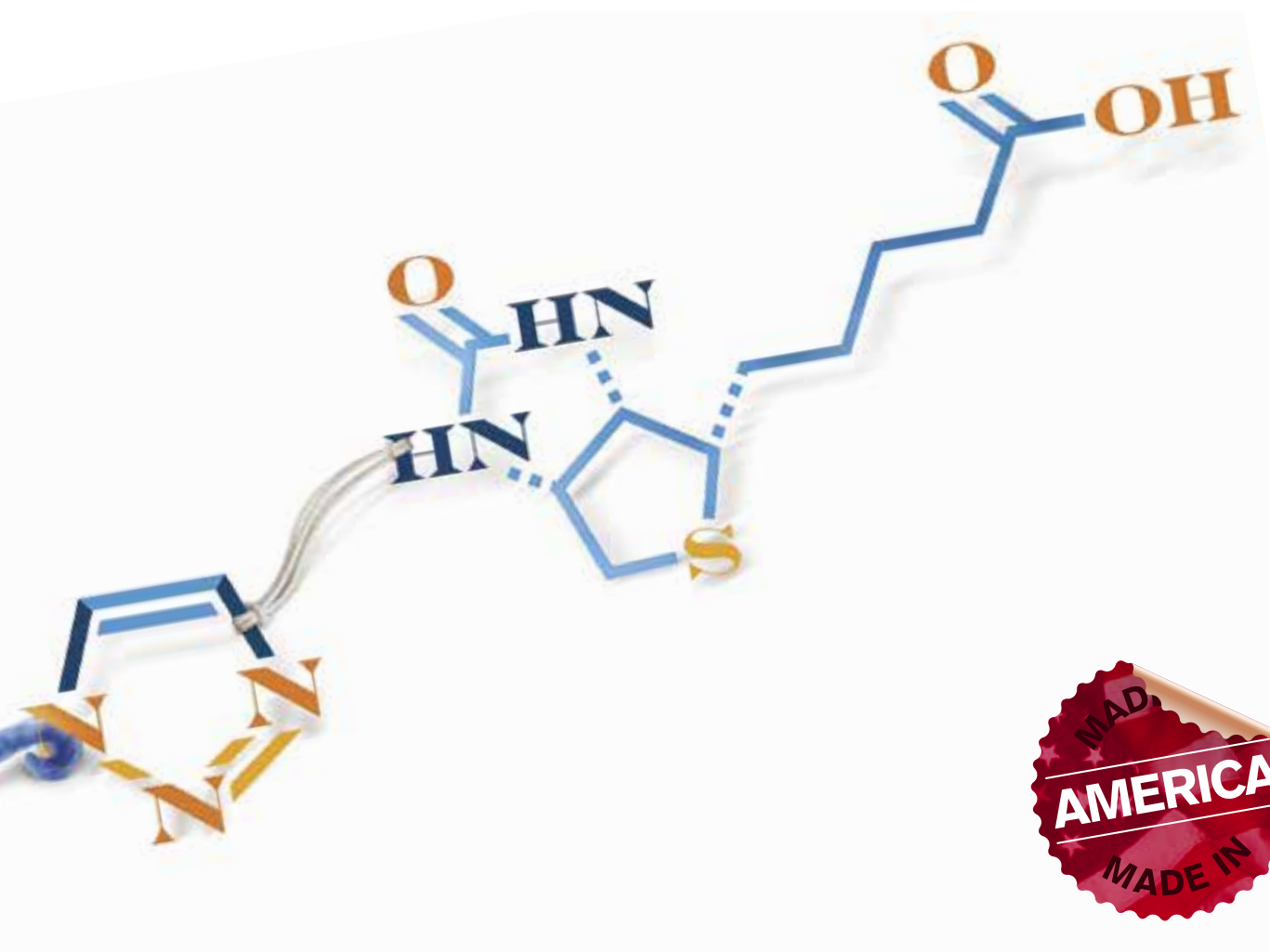
Click Functionalized Magnetic Beads

Azide, Alkyne, or DBCO modified, uniformed magnetic beads used for covalent capturing alkyne-, or azide-tagged biopolymers.

Product #	Description	Pkg. Size	Price
1035	Alkyne Magnetic Beads, 10 mg/mL	1 mL	\$139
1036	Azide Magnetic Beads, 10 mg/mL	1 mL	\$139
1037	DBCO Magnetic Beads, 10 mg/mL	1 mL	\$139

Highlights

- Uniform 1 micron beads
- Polymer encapsulated



Click Chemistry Tools

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Email: inquiries@clickchemistrytools.com
Web: www.clickchemistrytools.com