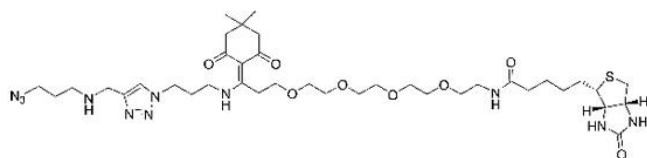




DDE BIOTIN AZIDE PLUS

SKU: CCT-1489



DESCRIPTION

Dde Biotin Azide Plus is an azide-activated cleavable biotin probe that allows for efficient recovery of streptavidin-bound protein complexes in affinity-based assays. This reagent contains a biotin moiety linked to azide group through a spacer arm containing a hydrazine-cleavable Dde moiety. Under mild conditions (2% aqueous hydrazine), the Dde linker is cleaved, releasing the biotin tag and any avidin conjugate bound to it.

Azide Plus reagents is the most recent step in improving CuAAC reaction in complex media developed by scientists at Click Chemistry Tools. Azide Plus reagents contain a complete copper-chelating system in their structure, allowing for the formation of strong, active copper complexes that act simultaneously as both reactant and catalyst in the CuAAC reaction. This azide-copper complex reacts almost instantaneously with alkynes under diluted conditions. This unprecedented reactivity in the CuAAC reaction is of special value for the detection of low abundance targets, improving biocompatibility, and is also valuable for any other application where greatly improved S/N ratio is highly desired

SPECIFICATIONS

CAS Number	N/A
Molecular Weight	834.05
Appearance	Oil to amorphous solid
Chemical Formula	C ₃₈ H ₆₃ N ₁₁ O ₈ S
Molecular Weight Left Behind	238.17 (C ₉ H ₁₈ N ₈)

For research use only. Not intended for therapeutic or diagnostic use in animals or humans.



Unit Size	1 mg, 5 mg, 25 mg
Solubility	DMSO, DMF, THF, DCM, Chloroform
Storage Instructions	-20°C
Shipping Conditions	Ambient temperature
Shipping Instructions	Ambient temperature

SELECTED REFERENCES

1. Matthew E. G., *et al.* (2017). Comprehensive Mapping of O-GlcNAc Modification Sites Using a Chemically Cleavable Tag. *Mol. Biosyst.*, **12**: 1756–59. [[PubMed](#)]
2. Gertsik N., *et al.* (2017). Mapping the Binding Site of BMS-708163 on γ -Secretase with Cleavable Photoprobes. *Cell Chemical Biology*, **32**: 3–8. [[PubMed](#)]
3. Jiang, H., *et al.* (2014). Monitoring Dynamic Glycosylation in Vivo Using Supersensitive Click Chemistry. *Bioconjugate Chem.*, **25**: 698–706. [[PubMed](#)]
4. Yang Y., *et al.* (2013). Cleavable Trifunctional Biotin Reagents for Protein Labeling, Capture, and Release. *Chem. Commun.*, **48**: 5366–86. [[PubMed](#)]
5. Uttamapinant, C., *et al.* (2012). Fast, Cell-Compatible Click Chemistry with Copper-Chelating Azides for Biomolecular Labeling. *Angew. Chem. Int. Ed.*, **51**: 5852–56. [[PubMed](#)]

DOCUMENTS

- [Safety Data Sheet](#)
- [Datasheet](#)

GALLERY IMAGES

