

Product Information

Alkyne/Biotin PEG reagent, Biotin-PEG4-C3-alkyne, Purity 90%

Cat. No.: X24-10-WXX68

Size: 25 mg; 50 mg; 100 mg

CAS Number: 1006592-45-5

PubChem CID: 101958089

Synonym: 1006592-45-5;

(3aS,4S,6aR)-hexahydro-2-oxo-N

-(15-oxo-3,6,9,12-tetraoxa-16-azanonadec-18-yn-1-yl)-1H-

thieno[3,4-d]imidazole-4-pentanamide; Biotin-PEG4-amide-alkyne;

1-(5-((3aS,4S,6aR

)-2-oxohexahydro-1H-

thieno[3,4-d]imidazol-4-yl)pentanamido)-N

-(prop-2-yn-1-yl)-3,6,9,12-tetraoxapentadecan-15-amide;

5-[(3aS,4S,6aR

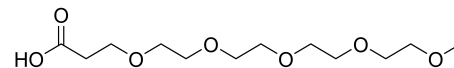
)-2-oxo-1,3,3a,4,6,6a-

hexahydrothieno[3,4-d]imidazol-4-yl]-N

-[2-[2-[2-[2-[3-oxo-3-(prop-2-ynylamino)propoxy]ethoxy]ethoxy]ethoxy]ethyl]pentanami

de;Biotin-Alkyne; Biotin-PEG4-Amide propargyl; Biotin-PEG4-C1-alkyne

This product is for research use only and is not intended for diagnostic use.



Product Information

Description	Biotin-PEG4-C3-alkyne is an azide-reactive biotinylation reagent, PEG4 arm increases the aqueous solubility of the reagent.
Molecular Weight	528.7
Molecular Formula	C ₂₄ H ₄₀ N ₄ O ₇ S
Functional Group 1	Alkyne
Functional Group 2	Biotin
Functional Group 3	None
Reactive Group 1	Azide
IUPAC Name	5-[(3aS,4S,6aR)-2-oxo-1,3,3a,4,6,6a-hexahydrothieno[3,4-d]imidazol-4-yl]-N-[2-[2-[2-[2-[3-oxo

-3-(prop-2-ynylamino)propoxy]ethoxy]ethoxy]ethyl]pentanamide

InChI	InChI=1S/C24H40N4O7S/c1-2-8-25-22(30)7-10-32-12-14-34-16-17-35-15-13-33-11-9-26-21(29)6-4-3-5-20-23-19(18-36-20)27-24(31)28-23/h1,19-20,23H,3-18H2,(H,25,30)(H,26,29)(H2,27,28,31)/t19-,20-,23-/m0/s1
InChI Key	YJLJWRIKUZDUPV-JTAQYXEDSA-N
Canonical SMILES	C#CCNC(=O)CCOCCOCCOCCOCCNC(=O)CCCCC1C2C(CS1)NC(=O)N2
Isomeric SMILES	C#CCNC(=O)CCOCCOCCOCCOCCNC(=O)CCCC[C@H]1[C@@H]2[C@H](CS1)NC(=O)N2
Form	Solid
Purity	90%
Identity	Confirmed by NMR.
Applications	Biotin-PEG4-C3-alkyne is useful in various applications, including the immobilization of biomolecules in biosensors or drug delivery systems.
Storage	Store at -20°C.