

Product Information

Azide/Biotin PEG reagent, Biotin-PEG2-C6-azide, Purity 98%

Cat. No.: X24-03-YW0162

Size: 10 mg

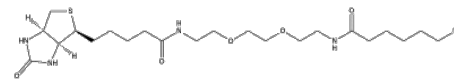
CAS Number: 1011268-29-3

PubChem CID: 91757768

Synonym: 1011268-29-3; Biotin-PEG2-C6-azide; AKOS040741344; BP-22694;

MS-29538

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



Product Information

Description	Biotin-PEG2-C6-azide is a PEG linker with a biotin group and an azide group. The azide functionality enables reaction with either alkyne moieties in Cu(I)-catalyzed Click Chemistry or DBCO moieties in copper-free Click Chemistry to form a stable triazole linkage.
Molecular Weight	513.7
Molecular Formula	C ₂₂ H ₃₉ N ₇ O ₅ S
Functional Group 1	Azide
Functional Group 2	Biotin
Functional Group 3	None
Reactive Group 1	Alkyne
Reactive Group 2	DBCO
IUPAC Name	<i>N</i> -[2-[2-[2-[5-[(3 <i>a</i> S,4 <i>S</i> ,6 <i>a</i> R)-2-oxo-1,3,3 <i>a</i> ,4,6,6 <i>a</i> -Hexahydrothieno[3,4- <i>d</i>]imidazol-4-yl]pentanoylamino]ethoxy]ethoxy]ethyl]-6-azidohexanamide
InChI	InChI=1S/C22H39N7O5S/c23-29-26-9-5-1-2-7-19(30)24-10-12-33-14-15-34-13-11-25-20(31)8-4-3-6-18-21-17(16-35-18)27-22(32)28-21/h17-18,21H,1-16H2,(H,24,30)(H,25,31)(H2,27,28,32)/t17-,18-,21-/m0/s1
InChI Key	NYAZUAAGKILBHO-WFXMLNOXSA-N
Canonical SMILES	C1C2C(C(S1)CCCCC(=O)NCCOCCOCCNC(=O)CCCCCN=[N+]=[N-])NC(=O)N2
Isomeric SMILES	C1[C@H]2[C@@H]([C@@H](S1)CCCCC(=O)NCCOCCOCCNC(=O)CCCCCN=[N+]=[N-])NC(=O)N2
Form	Solid
Purity	98%

Identity	Confirmed by NMR.
Applications	Biotin-PEG2-C6-azide finds application in various bioconjugation and labeling studies. It is particularly useful for the site-specific modification of biomolecules, such as proteins, peptides, and nucleic acids, allowing the introduction of biotin tags for affinity purification, detection, and imaging purposes.
Storage	Store at -20°C