

Product Information

Azide/Maleimide PEG reagent, Methylamino-PEG5-azide, Purity 98%

Cat. No.: X24-03-YW0743

Size: 100 mg; 250 mg; 500 mg

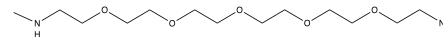
CAS Number: 2055046-24-5

PubChem CID: 102514821

Synonym: 2055046-24-5; 19-Azido-5,8,11,14,17-pentaoxa-2-azanonadecane;

2-[2-[2-[2-[2-(2-Azidoethoxy)ethoxy]ethoxy]ethoxy]ethoxy]-N-methylethanamine;

N₃-PEG5-CH₂CH₂NHMe



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

Product Information

Description	Methylamino-PEG5-azide is a PEG linker featuring a terminal azide group and a methylamino group. The azide group is compatible with Click Chemistry for efficient conjugation, while the methylamino group reacts with carboxylic acids, activated NHS esters, and carbonyl compounds. The PEG5 spacer enhances water solubility and hydrophilicity, making it suitable for diverse chemical modifications.
Molecular Weight	320.4
Molecular Formula	C ₁₃ H ₂₈ N ₄ O ₅
Functional Group 1	Azide
Functional Group 2	Maleimide
Reactive Group 1	Alkyne
Reactive Group 2	BCN
Reactive Group 3	DBCO
IUPAC Name	2-[2-[2-[2-[2-(2-Azidoethoxy)ethoxy]ethoxy]ethoxy]ethoxy]-N-methylethanamine
InChI	InChI=1S/C13H28N4O5/c1-15-2-4-18-6-8-20-10-12-22-13-11-21-9-7-19-5-3-16-17-14/h15H,2-13H2,1H3
InChI Key	DHHWWGQHCQSYRP-UHFFFAOYSA-N
Canonical SMILES	CNCCOCCOCCOCCOCCOCCN=[N+]=[N-]
Form	Liquid
Purity	98%
Solubility	Water, DMSO, DCM, DMF

Identity	Confirmed by NMR.
Applications	Methylamino-PEG5-azide is widely used in research for developing multifunctional bioconjugates, facilitating Click Chemistry reactions, and exploring amine-reactive conjugations. Its dual functionality enables the synthesis of complex biomaterials and linkers for experimental applications, including surface modification and molecular interaction studies.
Storage	Store at -20°C.