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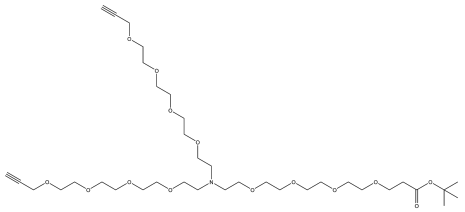
Product Information

Azide/Carboxylic acid PEG reagent, *N*-(Azido-PEG3)-*N*-(PEG3-NH-Boc)-PEG3-acid, Purity 98%



Cat. No.: X24-09-YYX485

Size: 50 mg; 100 mg; 250 mg

Synonym: *N*-(PEG3-NH-Boc)-*N*-(Azido-PEG3)-PEG3-acid; Azido-PEG3-NH-Boc-PEG3-acid; PEG3-acid-*N*-(Azido-PEG3)-*N*-(PEG3-NH-Boc)

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

Product Information

Description	*N*-(Azido-PEG3)-*N*-(PEG3-NH-Boc)-PEG3-acid functions as a branched reagent suitable for click chemistry applications. Its azide (N3) moiety facilitates reactions with alkynes such as propargyl, DBCO, and BCN. Additionally, the terminal carboxylic acid can interact effectively with primary amine groups.
Molecular Weight	697.8
Molecular Formula	$C_{30}H_{59}N_5O_{13}$
Functional Group 1	Acid
Functional Group 2	Azide
Functional Group 3	Boc
Reactive Group 1	Amine
Reactive Group 2	Alkyne
Form	Solid
Purity	98%
Solubility	Water, DMSO, DCM, DMF
Identity	Confirmed by NMR.
Applications	In the field of peptide synthesis, it can be used to modify peptides to improve their stability and solubility. It can also be employed in the conjugation of biomolecules for therapeutic or diagnostic purposes. In the area of materials science, it can be incorporated into polymer matrices to create materials with tailored properties such as mechanical strength and hydrophilicity.
Storage	Store at -20°C.