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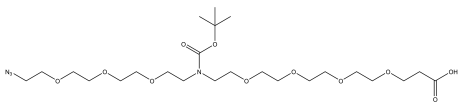
Product Information

Azide PEG reagent, 4-Arm PEG5-azide



Cat. No.: X24-09-YYX252

Size: 100 mg; 250 mg; 500 mg; 1 g

Synonym: 4-Arm Polyethylene Glycol 5-azide; Tetra-azido-PEG5; 4-Arm PEG5-Dialkyne; 4-Arm PEG5-Azido derivative

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

Product Information

Description	4-Arm PEG5-Azide has a structure with four arms, each featuring a PEG5 chain and an azide group. This multi-arm configuration provides multiple sites for conjugation, increasing the potential for crosslinking and complex molecule formation. The PEG5 chains contribute to solubility and biocompatibility, and the azide groups allow for specific chemical reactions, making it useful in various fields such as biomaterials and drug delivery.
Molecular Weight	1117.3
Molecular Formula	$C_{45}H_{88}N_{12}O_{20}$
Functional Group 1	Azide
Functional Group 2	None
Functional Group 3	None
Reactive Group 1	Alkynyl
IUPAC Name	1,3-bis[2-[2-[2-[2-(2-Azidoethoxy)ethoxy]ethoxy]ethoxy]ethoxy]-2,2-bis[2-[2-[2-[2-(2-Azidoethoxy)ethoxy]ethoxy]ethoxy]ethoxymethyl]propane
InChI	InChI=1S/C45H88N12O20/c46-54-50-1-5-58-9-13-62-17-21-66-25-29-70-33-37-74-41-45(42-75-38-34-71-30-26-67-22-18-63-14-10-59-6-2-51-55-47,43-76-39-35-72-31-27-68-23-19-64-15-11-60-7-3-52-56-48)44-77-40-36-73-32-28-69-24-20-65-16-12-61-8-4-53-57-49/h1-44H2
InChI Key	HQLGVEZOZTZOMK-UHFFFAOYSA-N
Isomeric SMILES	C(COCCOCCOCCOCCOCC(COCCOCCOCCOCCOCCN=[N+]=[N-])(COCCOCCOCCOCCOCCN=[N+]=[N-])COCCOCCOCCOCCOCCN=[N+]=[N-])N=[N+]=[N-]
Form	Solid
Solubility	DMSO, DCM, DMF
Identity	Confirmed by NMR.
Applications	4-Arm PEG5-azide is valuable in the creation of branched and cross-linked structures. It can be used in the synthesis of hydrogels and polymeric materials for tissue engineering and drug release

	applications.
Storage	Store at -20°C.