

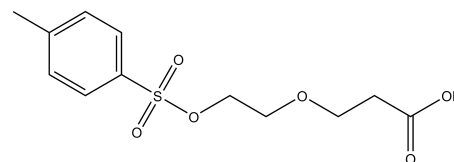
Product Information

Azide PEG reagent, *N*-(Azido-PEG1)-*N*-bis(PEG2-*t*-butyl ester), Purity 98%

Cat. No.: X24-09-YYX363

Size: 100 mg; 250 mg; 500 mg

Synonym: Azido-PEG1-bis(PEG2-*t*-butyl ester); *N*-(Azido-Polyethylene Glycol 1)-*N*-bis(*t*-butyl ester-PEG2); *N*-(Azido-PEG1)-*N*-bis(*tert*-butyl ester-PEG2); *N*-bis(Azido-PEG1)-*N*-(PEG2-*t*-butyl ester)



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

Product Information

Description	The compound <i>N</i> -(Azido-PEG1)- <i>N</i> -bis(PEG2- <i>t</i> -butyl ester) is a complex organic molecule with distinct structural features. It has an azido group attached to a PEG1 chain and two PEG2 chains each bearing a <i>t</i> -butyl ester group. The azide functionality offers opportunities for specific chemical reactions, such as click chemistry, enabling the conjugation of this compound with other molecules. The PEG chains increase the compound's solubility and biocompatibility.
Molecular Weight	562.7
Molecular Formula	C ₂₆ H ₅₀ N ₄ O ₉
Functional Group 1	Azide
Functional Group 2	<i>t</i> -Butyl ester
Functional Group 3	None
Reactive Group 1	Alkynyl
IUPAC Name	<i>tert</i> -butyl 3-[2-[2-[2-(2-Azidoethoxy)ethyl]-2-[2-[3-[(2-methylpropan-2-yl)oxy]-3-oxopropoxy]ethoxy]ethyl]amino]ethoxy]ethoxy]propanoate
InChI	InChI=1S/C26H50N4O9/c1-25(2,3)38-23(31)7-13-33-19-21-36-17-11-30(10-16-35-15-9-28-29-27)12-18-37-22-20-34-14-8-24(32)39-26(4,5)6/h7-22H2,1-6H3
InChI Key	FNSRRVDGGFEMMC-UHFFFAOYSA-N
Isomeric SMILES	CC(C)(C)OC(=O)CCOCCOCCN(CCOCCN=[N+]=[N-])CCOCCOCCC(=O)OC(C)(C)C
Form	Solid
Purity	98%
Identity	Confirmed by NMR.
Applications	In the modification of biomolecules like proteins or peptides, this compound can be used to introduce PEG chains and <i>t</i> -butyl esters for improved stability and controlled release.

Storage

Store at -20°C.
