SUITE 201, 17 Ramsey Road, Shirley, NY 11967, USA
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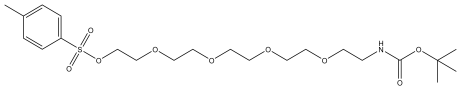
Product Information

Azide PEG reagent, Azido-PEG11-*t*-butyl ester, Purity 98%



Cat. No.: X24-09-YYX324

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

Synonym: Azido-PEG11 *t*-butyl ester; *t*-butyl ester of Azido-PEG11;

PEG11-Azido-*t*-butyl ester

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

Product Information

Description	Azido-PEG11-*t*-butyl ester is a linker designed for click chemistry, featuring an azide (N3) and a *t*-butyl ester group. The hydrophilic PEG spacer enhances solubility in water-based environments. The azide moiety is reactive with alkynes, BCN, and DBCO through click chemistry methods. Additionally, the carboxylic acid protected by the *t*-butyl group can be deprotected under acidic conditions.
Molecular Weight	655.8
Molecular Formula	$C_{29}H_{57}N_3O_{13}$
Functional Group 1	*t*-Butyl ester
Functional Group 2	Azide
Functional Group 3	Ether
Reactive Group 1	Alkyne
IUPAC Name	*tert*-butyl 3-[2-[2-[2-[2-[2-[2-[2-[2-[2-[2-(2-Azidoethoxy)ethoxy]ethoxy]ethoxy]ethoxy]ethoxy]ethoxy]ethoxy]ethoxy]ethoxy]ethoxy]propanoate
InChI	InChI=1S/C29H57N3O13/c1-29(2,3)45-28(33)4-6-34-8-10-36-12-14-38-16-18-40-20-22-42-24-26-44-27-25-43-23-21-41-19-17-39-15-13-37-11-9-35-7-5-31-32-30/h4-27H2,1-3H3
InChI Key	TVNIWZCSQMCKCI-UHFFFAOYSA-N
Isomeric SMILES	CC(C)(C)OC(=O)CCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCN=[N+]=[N-]
Form	Solid
Purity	98%
Identity	Confirmed by NMR.
Applications	This could be used in organic synthesis for controlled modifications and protection of molecules. The long PEG chain and *t*-butyl ester provide specific properties for various applications.
Storage	Store at -20°C.

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