

## Product Information

### Azide PEG reagent, Azido-PEG8-*t*-butyl ester, Purity 98%

**Cat. No.:** X24-09-YYX361

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

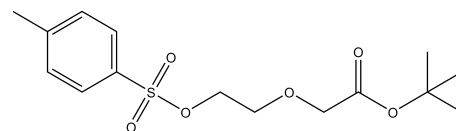
**CAS Number:** 1623791-99-0

**PubChem CID:** 77078493

**Synonym:** 1623791-99-0; Azido-PEG8-*t*-butyl ester; Azido-PEG8-Boc;

4,7,10,13,16,19,22,25-Octaoxaheptacosanoic acid, 27-azido-, 1,1-dimethylethyl ester;

N<sub>3</sub>-PEG8-CH<sub>2</sub>CH<sub>2</sub>COOtBu



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

#### Product Information

<b>Description</b>	Azido-PEG8- <i>t</i> -butyl ester serves as a compound designed for click chemistry, incorporating an azide group along with a <i>t</i> -butyl ester functionality. The hydrophilic PEG spacer improves solubility in water-based media. Similar to previous products mentioned, its azide group can engage in reactions with alkyne compounds like BCN or DBCO <i>via</i> click chemistry processes resulting in stable triazole formations.
<b>Molecular Weight</b>	523.6
<b>Molecular Formula</b>	C <sub>23</sub> H <sub>45</sub> N <sub>3</sub> O <sub>10</sub>
<b>Functional Group 1</b>	Azide
<b>Functional Group 2</b>	<i>t</i> -Butyl ester
<b>Functional Group 3</b>	None
<b>Reactive Group 1</b>	Alkynyl
<b>IUPAC Name</b>	<i>tert</i> -butyl 3-[2-[2-[2-[2-[2-[2-[2-(2-Azidoethoxy)ethoxy]ethoxy]ethoxy]ethoxy]ethoxy]ethoxy]ethoxy]propanoate
<b>InChI</b>	InChI=1S/C23H45N3O10/c1-23(2,3)36-22(27)4-6-28-8-10-30-12-14-32-16-18-34-20-21-35-19-17-33-15-13-31-11-9-29-7-5-25-26-24/h4-21H2,1-3H3
<b>InChI Key</b>	LBNCLZBCQUTBAP-UHFFFAOYSA-N
<b>Canonical SMILES</b>	CC(C)(C)OC(=O)CCOCCOCCOCCOCCOCCOCCOCCOCCOCCN=[N+]=[N-]
<b>Form</b>	Solid
<b>Purity</b>	98%
<b>Solubility</b>	Water, DMSO, DCM, DMF

<b>Identity</b>	Confirmed by NMR.
<b>Applications</b>	In the field of drug delivery, it can be used to modify drug molecules to increase their solubility and stability. The long PEG chain and <i>t</i> -butyl ester provide protection and improved pharmacokinetic properties.
<b>Storage</b>	Store at -20°C.

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