

## Product Information

### Azide PEG reagent, Bromo-PEG5-azide, Purity 98%

**Cat. No.:** X24-09-YYX378

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

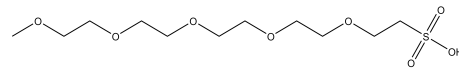
**CAS Number:** 1402411-90-8

**PubChem CID:** 77078374

**Synonym:** 1402411-90-8; Bromo-PEG5-azide;

1-AZIDO-17-BROMO-3,6,9,12,15-PENTAOXAHEPTADECANE; Br-PEG5-N3

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



#### Product Information

<b>Description</b>	Bromo-PEG5-azide contains both a bromide group and a terminal azide. The bromine (Br) acts as an excellent leaving group for nucleophilic reactions. Furthermore, the azide can participate in click chemistry reactions with alkynes such as BCN or DBCO to yield stable triazole linkages. The PEG5 spacer improves solubility in water-based media.
<b>Molecular Weight</b>	370.2
<b>Molecular Formula</b>	C <sub>12</sub> H <sub>24</sub> BrN <sub>3</sub> O <sub>5</sub>
<b>Functional Group 1</b>	Azide
<b>Functional Group 2</b>	Bromine
<b>Functional Group 3</b>	None
<b>Reactive Group 1</b>	Alkynyl
<b>Reactive Group 2</b>	Alkenes
<b>IUPAC Name</b>	1-Azido-2-[2-[2-[2-[2-(2-bromoethoxy)ethoxy]ethoxy]ethoxy]ethoxy]ethane
<b>InChI</b>	InChI=1S/C12H24BrN3O5/c13-1-3-17-5-7-19-9-11-21-12-10-20-8-6-18-4-2-15-16-14/h1-12H2
<b>InChI Key</b>	KTOVCBYDDDWFOX-UHFFFAOYSA-N
<b>Canonical SMILES</b>	C(COCCOCCOCCOCCOCCBr)N=[N+]=[N-]
<b>Form</b>	Solid
<b>Purity</b>	98%
<b>Identity</b>	Confirmed by NMR.
<b>Applications</b>	It can be used in the synthesis of complex molecules through sequential chemical reactions. The bromo group and the azide group offer different reactivity options for conjugation and functionalization.

**Storage**

Store at -20°C.

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