

## Product Information

### Phosphonic acid/Ester/Azide PEG reagent, Azido-PEG3-phosphonic acid ethyl ester, Purity ≥98%

**Cat. No.:** X25-10-YM030

**Size:** 50 mg; 100 mg; 250 mg; 500 mg

**CAS Number:** 1337527-24-8

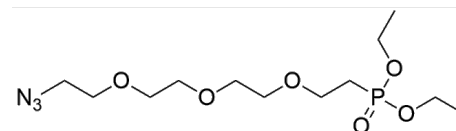
**PubChem CID:** 86678293

**Synonym:** 1337527-24-8; Azido-PEG3-phosphonic acid ethyl ester; Diethyl

(2-(2-(2-(2-azidoethoxy)ethoxy)ethoxy)ethyl)phosphonate; diethyl

(2-{2-[2-(2-azidoethoxy)ethoxy]ethoxy}ethyl)phosphonate

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



#### Product Information

<b>Description</b>	Azido-PEG3-phosphonic acid ethyl ester possesses a molecular weight of 339.3 and is represented by the formula $C_{12}H_{26}N_3O_6P$ . It is composed of the functional groups phosphonic acid, ester, and azide, while reactive groups are defined by alkyne and thiol.
<b>Molecular Weight</b>	339.3
<b>Molecular Formula</b>	$C_{12}H_{26}N_3O_6P$
<b>Functional Group 1</b>	Phosphonic acid
<b>Functional Group 2</b>	Ester
<b>Functional Group 3</b>	Azide
<b>Reactive Group 1</b>	Alkyne
<b>Reactive Group 2</b>	Thiol
<b>IUPAC Name</b>	1-Azido-2-[2-[2-(2-diethoxyphosphorylethoxy)ethoxy]ethoxy]ethane
<b>InChI Key</b>	FPXYMBISZVJSOJ-UHFFFAOYSA-N
<b>Canonical SMILES</b>	<chem>CCOP(=O)(CCOCCOCCOCCN=[N+]=[N-])OCC</chem>
<b>Form</b>	Liquid
<b>Purity</b>	≥98%
<b>Impurities</b>	No visible impurities to the naked eye.
<b>Solubility</b>	DMSO, DCM, DMF
<b>Identity</b>	Confirmed by NMR.

Applications	Azido-PEG3-phosphonic acid ethyl ester displays the significant potential to act as an effective linker in the synthesis of multifunctional nanocarriers for gene therapy and vaccine development.
Storage	Store at -20°C.