

Product Information

Azide PEG reagent, Azido-PEG9-*t*-butyl ester, Purity 98%

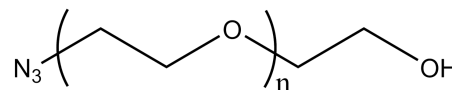
Cat. No.: X24-09-YYX371

Size: 100 mg; 250 mg; 1 g

CAS Number: 1818294-43-7

PubChem CID: 77078359

Synonym: 1818294-43-7; Azido-PEG9-*t*-butyl ester; Azido-PEG9-Boc



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

Product Information

Description	Azido-PEG9- <i>t</i> -butyl ester functions as a PEG linker molecule featuring an azide group. Similar to previous products mentioned, this azide can react with alkyne compounds such as BCN or DBCO through click chemistry processes resulting in stable triazole formations. Furthermore, the <i>t</i> -butyl protected carboxylic acid can be deprotected under acidic conditions.
Molecular Weight	567.7
Molecular Formula	C ₂₅ H ₄₉ N ₃ O ₁₁
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-[2-[2-[2-(2-Azidoethoxy)ethoxy]ethoxy]ethoxy]ethoxy]ethoxy]ethoxy]ethoxy]ethoxy]propanoate
InChI	InChI=1S/C25H49N3O11/c1-25(2,3)39-24(29)4-6-30-8-10-32-12-14-34-16-18-36-20-22-38-23-21-37-19-17-35-15-13-33-11-9-31-7-5-27-28-26/h4-23H2,1-3H3
InChI Key	HNZVYHQBKFTIJZ-UHFFFAOYSA-N
Canonical SMILES	CC(C)(C)OC(=O)CCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCN=[N+]=[N-]
Form	Solid
Purity	98%
Solubility	Water, DMSO, DCM, DMF
Identity	Confirmed by NMR.
Applications	It can be used in the synthesis of polymeric materials or nanoparticles for drug delivery. The <i>t</i> -butyl ester can be selectively removed under certain conditions to expose reactive groups. The PEG chain enhances solubility and biocompatibility.

Storage

Store at -20°C.
