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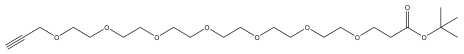
Product Information

Azide/Carboxylic acid PEG reagent, Azido-PEG3-CH_2CO_2-*t*-Bu, Purity 98%



Cat. No.: X24-09-YYX491

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

CAS Number: 172531-36-1

PubChem CID: 92042270

Synonym: 172531-36-1; Azido-PEG3-C-Boc; N_3-PEG3-CH_2COOtBu; *tert*-butyl 2-(2-(2-(2-azidoethoxy)ethoxy)ethoxy)acetate

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

Product Information

Description	Azido-PEG3-CH_2CO_2-*t*-Bu is a compound featuring an azide (N3) group along with a *t*-butyl ester. The hydrophilic PEG spacer enhances solubility in aqueous environments. This azide moiety can react with alkyne compounds, BCN, and DBCO through click chemistry methods to form stable triazole linkages. Additionally, the *t*-butyl protected carboxylic acid can be deprotected under acidic conditions.
Molecular Weight	289.3
Molecular Formula	$C_{12}H_{23}N_3O_5$
Functional Group 1	Acid
Functional Group 2	Azide
Functional Group 3	None
Reactive Group 1	Amine
Reactive Group 2	Alkyne
IUPAC Name	*tert*-butyl 2-[2-[2-(2-Azidoethoxy)ethoxy]ethoxy]acetate
InChI	InChI=1S/C12H23N3O5/c1-12(2,3)20-11(16)10-19-9-8-18-7-6-17-5-4-14-15-13/h4-10H2,1-3H3
InChI Key	HMWOUJOCAQZURC-UHFFFAOYSA-N
Canonical SMILES	CC(C)(C)OC(=O)COCCOCCOCCN=[N+]=[N-]
Form	Solid
Purity	98%
Solubility	DMSO, DCM, DMF
Identity	Confirmed by NMR.
Applications	In the field of surface chemistry, it can be used to functionalize surfaces of materials to control cell

	adhesion or protein adsorption. Additionally, it can be utilized in the development of biosensors or analytical devices for specific detection.
Storage	Store at -20°C.