

Product Information

Azide/*t*-Butyl-protected carboxyl PEG reagent, Azido-PEG3-S-PEG4-*t*-butyl ester, Purity 98%

Cat. No.: X24-10-WXX341

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

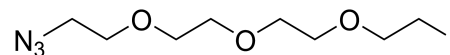
CAS Number: 2055041-19-3

PubChem CID: 119058251

Synonym: Azido-PEG3-S-PEG4-*t*-butyl ester; 2055041-19-3; AKOS040742976;

AZIDO-PEG3-S-PEG4-T-BUTYLESTER

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



Product Information

Description	Azido-PEG3-S-PEG4- <i>t</i> -butyl ester is a reagent grade PEG linker with a <i>t</i> -butyl-protected carboxyl group and an azide group. The PEG spacer increases water solubility. Under standard acid/amine or acid/hydroxyl coupling conditions, the <i>t</i> -butyl-protected carboxyl group (COOH) prevents self-coupling or polymerization.
Molecular Weight	539.7
Molecular Formula	C ₂₃ H ₄₅ N ₃ O ₉ S
Functional Group 1	Azide
Functional Group 2	<i>t</i> -Butyl protected carboxyl
Functional Group 3	None
Reactive Group 1	Alkyne
IUPAC Name	<i>tert</i> -butyl 3-[2-[2-[2-[2-[2-(2-azidoethoxy)ethoxy]ethoxy]ethylsulfanyl]ethoxy]ethoxy]ethoxy]propanoate
InChI	InChI=1S/C23H45N3O9S/c1-23(2,3)35-22(27)4-6-28-8-10-30-12-13-32-15-17-34-19-21-36-20-18-33-16-14-31-11-9-29-7-5-25-26-24/h4-21H2,1-3H3
InChI Key	UPJKMGHIPNYNEY-UHFFFAOYSA-N
Canonical SMILES	CC(C)(C)OC(=O)CCOCCOCCOCCOCCSCCOCCOCCOCCCN=[N+]=[N-]
Form	Liquid
Purity	98%
Identity	Confirmed by NMR.
Applications	Azido-PEG3-S-PEG4- <i>t</i> -butyl ester improves the solubility of biomolecules while providing a reactive

azide moiety for click chemistry applications, helping to build complex biomaterials.

Storage

Store at -20°C.
