

Product Information

Acid/Amine/*t*-Butyl ester PEG reagent, *N*-(Azido-PEG3)-NH-PEG3-*t*-butyl ester, Purity 98%

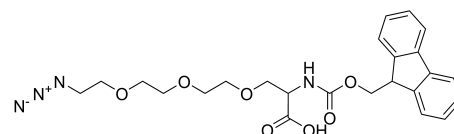
Cat. No.: X24-10-WXX296

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

CAS Number: 2758724-73-9

Synonym: Acid/Amine/*t*-Butyl ester PEG reagent; *N*-(azido-PEG3)-NH-PEG3-*t*-butyl ester; 2758724-73-9

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



Product Information

Description	<i>N</i> -(Azido-PEG3)-NH-PEG3- <i>t</i> -butyl ester is a reagent grade click chemistry reagent with a secondary amine NH group and terminal azide group. NH group is reactive with NHS ester. The terminal carboxylic acid reacts with primary amine groups in the presence of activators (EDC, HATU, <i>etc</i>).
Molecular Weight	478.6
Molecular Formula	C ₂₁ H ₄₂ N ₄ O ₈
Functional Group 1	Acid
Functional Group 2	Amine
Functional Group 3	<i>t</i> -Butyl ester
Reactive Group 1	Amine
IUPAC Name	<i>tert</i> -butyl 3-[2-[2-[2-[2-[2-(2-azidoethoxy)ethoxy]ethoxy]ethylamino]ethoxy]ethoxy]ethoxy]propanoate
InChI	InChI=1S/C21H42N4O8/c1-21(2,3)33-20(26)4-8-27-12-16-31-17-13-28-9-5-23-6-10-29-14-18-32-19-15-30-11-7-24-25-22/h23H,4-19H2,1-3H3
InChI Key	YRWCSDHRCIQMOU-UHFFFAOYSA-N
Canonical SMILES	CC(C)(C)OC(=O)CCOCCOCCOCCNCCOCCOCCOCCN=[N+]=[N-]
Form	Solid
Purity	98%
Identity	Confirmed by NMR.
Applications	<i>N</i> -(Azido-PEG3)-NH-PEG3- <i>t</i> -butyl ester is utilized in developing drug delivery systems with enhanced solubilities, where the release profile is tailored to achieve optimal therapeutic effects, enabling targeted treatment strategies.

Storage

Store at -20°C.
