

Product Information

Boc-protected amine/Propargyl PEG reagent, *N*-(Boc-PEG1)-*N*-bis(PEG2-propargyl), Purity 98%

Cat. No.: X24-10-WXX164

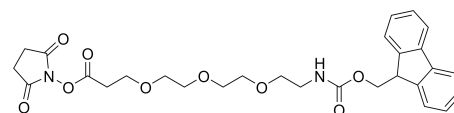
Size: 100 mg; 250 mg; 500 mg; 1 g

CAS Number: 2100306-63-4

PubChem CID: 126480429

Synonym: *N*-(Boc-PEG1)-*N*-bis(PEG2-propargyl); 2100306-63-4; AKOS040742228

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



Product Information

Description	<i>N</i> -(Boc-PEG1)- <i>N</i> -bis(PEG2-propargyl) is a reagent grade click chemistry branched linker, designed for copper-catalyzed click chemistry reactions. The Boc group is deprotected under acidic conditions to release the amine group.
Molecular Weight	456.6
Molecular Formula	C ₂₃ H ₄₀ N ₂ O ₇
Functional Group 1	Boc-protected amine
Functional Group 2	Propargyl
Functional Group 3	None
Reactive Group 1	Azide
IUPAC Name	<i>tert</i> -butyl <i>N</i> -[2-[2-[bis[2-(2-prop-2-ynoxyethoxy)ethyl]amino]ethoxy]ethyl]carbamate
InChI	InChI=1S/C23H40N2O7/c1-6-12-27-18-20-30-16-10-25(11-17-31-21-19-28-13-7-2)9-15-29-14-8-24-22(26)32-23(3,4)5/h1-2H,8-21H2,3-5H3,(H,24,26)
InChI Key	MGRYPZQWMHNWAP-UHFFFAOYSA-N
Canonical SMILES	CC(C)(C)OC(=O)NCCOCCN(CCOCOCOC#C)CCOCOCOC#C
Form	Liquid
Purity	98%
Identity	Confirmed by NMR.
Applications	<i>N</i> -(Boc-PEG1)- <i>N</i> -bis(PEG2-propargyl) is used in molecular biology and bioconjugation research, facilitating efficient copper-catalyzed click chemistry reactions with azide-bearing molecules and enabling subsequent functionalization after Boc deprotection. Its design is ideal for studying biomolecular interactions and developing targeted drug delivery systems.

Storage

Store at -20°C.
