

## Product Information

### Boc-protected amine/Propargyl PEG reagent, *N*-(Propargyl-PEG2)-*N*-Boc-PEG3-*t*-butyl ester, Purity 98%

**Cat. No.:** X24-10-WXX134

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

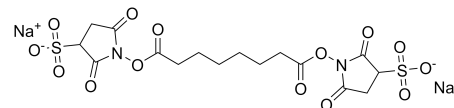
**CAS Number:** 2093152-78-2

**PubChem CID:** 126480480

**Synonym:** *N*-(Propargyl-PEG2)-*N*-Boc-PEG3-*t*-butyl ester; 2093152-78-2; *N*

-(PROPARGYL-PEG2)-*N*-BOC-PEG3-T-BUTYLESTER; AKOS040742253

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



#### Product Information

<b>Description</b>	<i>N</i> -(Propargyl-PEG2)- <i>N</i> -Boc-PEG3- <i>t</i> -butyl ester is a reagent grade click chemistry branched linker. The propargyl group reacts with azide-bearing compounds through click chemistry, and the <i>t</i> -butyl-protected carboxyl group is also deprotected under mildly acidic conditions.
<b>Molecular Weight</b>	503.6
<b>Molecular Formula</b>	C <sub>25</sub> H <sub>45</sub> NO <sub>9</sub>
<b>Functional Group 1</b>	Boc-protected amine
<b>Functional Group 2</b>	Propargyl
<b>Functional Group 3</b>	None
<b>Reactive Group 1</b>	Azide
<b>IUPAC Name</b>	<i>tert</i> -butyl 3-[2-[2-[2-[(2-methylpropan-2-yl)oxycarbonyl-[2-(2-prop-2-ynoxyethoxy)ethyl]amino]ethoxy]ethoxy]ethoxy]propanoate
<b>InChI</b>	InChI=1S/C25H45NO9/c1-8-12-29-16-18-31-14-10-26(23(28)35-25(5,6)7)11-15-32-19-21-33-20-17-30-13-9-22(27)34-24(2,3)4/h1H,9-21H2,2-7H3
<b>InChI Key</b>	CYUDPFZOQSQYJL-UHFFFAOYSA-N
<b>Canonical SMILES</b>	CC(C)(C)OC(=O)CCOCCOCCOCCN(CC(=O)OC(C)(C)C)C(=O)OC(C)(C)C
<b>Form</b>	Solid
<b>Purity</b>	98%
<b>Solubility</b>	DMSO, DMF, DCM
<b>Identity</b>	Confirmed by NMR.
<b>Applications</b>	<i>N</i> -(Propargyl-PEG2)- <i>N</i> -Boc-PEG3- <i>t</i> -butyl ester allows for the controlled release of drugs. It serves

key roles in the development of drug delivery carriers that achieve site-specific release mechanisms, enhancing therapeutic activity.

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**Storage**

Store at -20°C.

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