

## Product Information

### Propargyl/*t*-Butyl ester PEG reagent, *N*-(*t*-butyl ester-PEG2)-*N*-bis(PEG2-propargyl), Purity 98%

**Cat. No.:** X24-10-WXX137

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

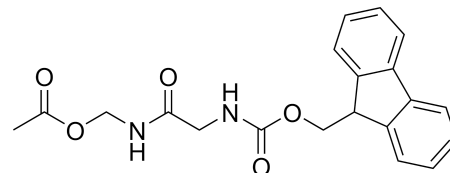
**CAS Number:** 2100306-69-0

**PubChem CID:** 126480437

**Synonym:** 2100306-69-0; *N*-(*t*-butyl ester-PEG2)-*N*-bis(PEG2-propargyl); *N*-(PEG2-Boc)-*N*-bis(PEG2-propargyl);

*N*-(*T*-BUTYLESTER-PEG2)-*N*-BIS(PEG2-PROPARGYL); tert-butyl 10-(2-(2-(prop-2-y  
n-1-yloxy)ethoxy)ethyl)-4,7,13,16-tetraoxa-10-azanonadec-18-ynoate

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



#### Product Information

<b>Description</b>	<i>N</i> -( <i>t</i> -butyl ester-PEG2)- <i>N</i> -bis(PEG2-propargyl) is a reagent grade multi-functional PEG linker with two terminal propargyl groups and a <i>t</i> -butyl ester. The propargyl groups enable the formation of triazole linkage with azide-bearing biomolecules or compounds in copper-catalyzed click chemistry. The <i>t</i> -butyl-protected carboxyl group is deprotected under mildly acidic conditions.
<b>Molecular Weight</b>	485.6
<b>Molecular Formula</b>	C <sub>25</sub> H <sub>43</sub> NO <sub>8</sub>
<b>Functional Group 1</b>	Propargyl
<b>Functional Group 2</b>	<i>t</i> -Butyl ester
<b>Functional Group 3</b>	None
<b>Reactive Group 1</b>	Azide
<b>IUPAC Name</b>	tert-butyl 3-[2-[2-[bis[2-(2-prop-2-ynoxyethoxy)ethyl]amino]ethoxy]ethoxy]propanoate
<b>InChI</b>	InChI=1S/C25H43NO8/c1-6-12-28-18-21-31-15-9-26(10-16-32-22-19-29-13-7-2)11-17-33-23-20-30-14-8-24(27)34-25(3,4)5/h1-2H,8-23H2,3-5H3
<b>InChI Key</b>	SNTDJGZACCWQRM-UHFFFAOYSA-N
<b>Canonical SMILES</b>	CC(C)(C)OC(=O)CCOCCOCCN(CCOCCOCC#C)CCOCCOCC#C
<b>Form</b>	Liquid
<b>Purity</b>	98%
<b>Identity</b>	Confirmed by NMR.

**Applications**

*N*-(*t*-butyl ester-PEG2)-*N*-bis(PEG2-propargyl) allows for controlled drug release, supporting applications in creating multifunctional drug delivery systems and enhancing the solubility of therapeutic agents.

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**Storage**

Store at -20°C.

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