

## Product Information

### Propargyl/*t*-Butyl-protected carboxyl PEG reagent, Propargyl-PEG4-CH<sub>2</sub>CO<sub>2</sub>*t*Bu, Purity 98%

**Cat. No.:** X24-10-WXX99

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

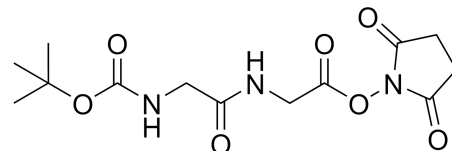
**CAS Number:** 888010-02-4

**PubChem CID:** 11529569

**Synonym:** Propargyl-PEG4-CH<sub>2</sub>CO<sub>2</sub>*t*Bu; 888010-02-4; Propargyl-PEG3-OCH<sub>2</sub>-Boc;

Alkyne-PEG4-CH<sub>2</sub>COOtBu; Propargyl-PEG3-CH<sub>2</sub>COOtBu

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



#### Product Information

<b>Description</b>	Propargyl-PEG4-CH <sub>2</sub> CO <sub>2</sub> <i>t</i> Bu is a reagent grade PEG reagent, designed for copper-catalyzed click chemistry reactions. The <i>t</i> -butyl-protected carboxyl group is deprotected under acidic conditions.
<b>Molecular Weight</b>	302.4
<b>Molecular Formula</b>	C <sub>15</sub> H <sub>26</sub> O <sub>6</sub>
<b>Functional Group 1</b>	Propargyl
<b>Functional Group 2</b>	<i>t</i> -Butyl protected carboxyl
<b>Functional Group 3</b>	None
<b>Reactive Group 1</b>	Azide
<b>IUPAC Name</b>	<i>tert</i> -butyl 2-[2-[2-(2-prop-2-ynoxyethoxy)ethoxy]ethoxy]acetate
<b>InChI</b>	InChI=1S/C15H26O6/c1-5-6-17-7-8-18-9-10-19-11-12-20-13-14(16)21-15(2,3)4/h1H,6-13H2,2-4H3
<b>InChI Key</b>	YWUOCZSOXBPJMP-UHFFFAOYSA-N
<b>Canonical SMILES</b>	CC(C)(C)OC(=O)COCCOCCOCCOCC#C
<b>Form</b>	Liquid
<b>Purity</b>	98%
<b>Identity</b>	Confirmed by NMR.
<b>Applications</b>	Propargyl-PEG4-CH <sub>2</sub> CO <sub>2</sub> <i>t</i> Bu is used in molecular biology and bioconjugation research, facilitating efficient copper-catalyzed click chemistry reactions with azide-bearing compounds, making it ideal for studying biomolecular interactions and developing targeted drug delivery systems.
<b>Storage</b>	Store at -20°C.

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