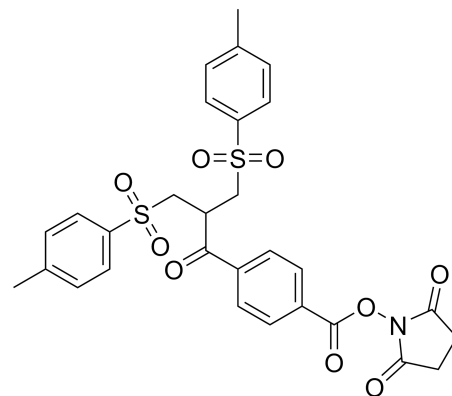


Propargyl/*t*-Boc-protected amine PEG reagent, *t*-Boc-*N*-amido-PEG12-propargyl, Purity 98%

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



Description	<i>t</i> -Boc- <i>N</i> -amido-PEG12-propargyl is designed for copper-catalyzed click chemistry reactions. The <i>t</i> -Boc-protected amine is deprotected under mild acidic conditions. The PEG spacer increases water solubility.
Molecular Weight	683.8
Molecular Formula	C ₃₂ H ₆₁ NO ₁₄
Functional Group 1	Propargyl
Functional Group 2	<i>t</i> -Boc-protected amine
Functional Group 3	None
Reactive Group 1	Azide
IUPAC Name	<i>tert</i> -butyl <i>N</i> -[2-[2-[2-[2-[2-[2-[2-[2-[2-(2-prop-2-ynoxyethoxy)ethoxy]ethoxy]ethoxy]ethoxy]ethoxy]ethoxy]ethoxy]ethoxy]ethoxy]ethoxy]ethyl]carbamate
InChI	InChI=1S/C32H61NO14/c1-5-7-35-9-11-37-13-15-39-17-19-41-21-23-43-25-27-45-29-30-46-28-26-44-24-22-42-20-18-40-16-14-38-12-10-36-8-6-33-31(34)47-32(2,3)4/h1H,6-30H2,2-4H3,(H,33,34)
InChI Key	BWGQYPVJEDNKGW-UHFFFAOYSA-N
Canonical SMILES	<chem>CC(C)(C)OC(=O)NCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCC#C</chem>
Form	Solid
Purity	98%
Identity	Confirmed by NMR.

Applications	<i>t</i>-Boc-<i>N</i>-amido-PEG12-propargyl is used in molecular biology and bioconjugation research, facilitating efficient copper-catalyzed click chemistry reactions with biomolecules that contain azide. Its unique structure lends itself to several applications across different fields, particularly in bioconjugation, drug delivery, and materials science.
Storage	Store at -20°C.