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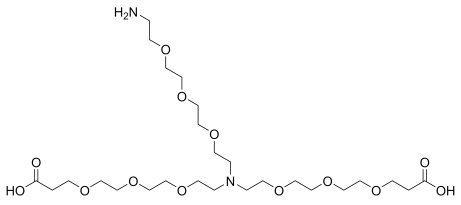
Product Information

Propargyl/*t*-Butyl ester PEG reagent, Propargyl-PEG14-*t*-butyl ester, Purity 98%



Cat. No.: X24-10-WXX75

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

CAS Number: 2055104-86-2

PubChem CID: 102514846

Synonym: Propargyl-PEG14-t-butyl ester; 2055104-86-2; Propargyl-PEG14-Boc; PROPARGYL-PEG14-T-BUTYLESTER; AKOS040743795

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

Product Information

Description	Propargyl-PEG14-*t*-butyl ester consists of a *t*-butyl-protected carboxyl group and a propargyl group, designed for copper-catalyzed click chemistry reactions. The *t*-butyl group is hydrolyzed in acidic conditions. The hydrophilic PEG units improve solubility in aqueous buffers.
Molecular Weight	756.9
Molecular Formula	$C_{36}H_{68}O_{16}$
Functional Group 1	Propargyl
Functional Group 2	*t*-Butyl ester
Functional Group 3	None
Reactive Group 1	Azide
IUPAC Name	*tert*-butyl 3-[2-[2-[2-[2-[2-[2-[2-[2-[2-[2-[2-[2-(2-prop-2-ynoxyethoxy)ethoxy]ethoxy]ethoxy]ethoxy]ethoxy]ethoxy]ethoxy]ethoxy]ethoxy]ethoxy]ethoxy]propanoate
InChI	InChI=1S/C36H68O16/c1-5-7-38-9-11-40-13-15-42-17-19-44-21-23-46-25-27-48-29-31-50-33-34-51-32-30-49-28-26-47-24-22-45-20-18-43-16-14-41-12-10-39-8-6-35(37)52-36(2,3)4/h1H,6-34H2,2-4H3
InChI Key	ZARGKRMZKKFQJH-UHFFFAOYSA-N
Canonical SMILES	CC(C)(C)OC(=O)CCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCC#C
Form	Liquid
Purity	98%
Solubility	DMSO, DMF, DCM
Identity	Confirmed by NMR.
Applications	Propargyl-PEG14-*t*-butyl ester is used in molecular biology and bioconjugation research, facilitating

	efficient copper-catalyzed click chemistry reactions with azide compounds to form a stable triazole linkage, making it ideal for modifying biomolecules.
Storage	Store at -20°C.