SUITE 201, 17 Ramsey Road, Shirley, NY 11967, USA
Tel: 1-631-637-6119 | Email: info@bioglyco.com

Product Information

Propargyl/*t*-Butyl-protected carboxyl PEG reagent, Propargyl-PEG5-CH_2CO_2tBu, Purity 98%

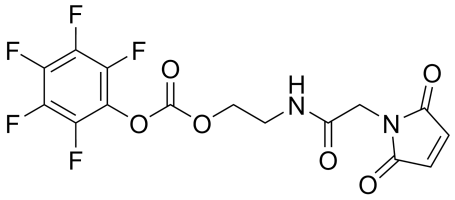
Cat. No.: X24-10-WXX120

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

CAS Number: 2098489-63-3

PubChem CID: 131954381

Synonym: Propargyl-PEG5-CH_2CO_2tBu; 2098489-63-3; Propargyl-PEG4-O-C1-Boc; AKOS040742483



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

Product Information

Description	Propargyl-PEG5-CH_2CO_2tBu is designed for copper-catalyzed click chemistry reactions with azide biomolecules or compounds. The *t*-butyl group is hydrolyzed under acidic conditions.
Molecular Weight	346.4
Molecular Formula	$C_{17}H_{30}O_7$
Functional Group 1	Propargyl
Functional Group 2	*t*-Butyl protected carboxyl
Functional Group 3	None
Reactive Group 1	Azide
IUPAC Name	*tert*-butyl 2-[2-[2-[2-(2-prop-2-ynoxyethoxy)ethoxy]ethoxy]ethoxy]acetate
InChI	InChI=1S/C17H30O7/c1-5-6-19-7-8-20-9-10-21-11-12-22-13-14-23-15-16(18)24-17(2,3)4/h1H,6-15H2,2-4H3
InChI Key	ZYUYTWWDQAPZRS-UHFFFAOYSA-N
Canonical SMILES	CC(C)(C)OC(=O)COCCOCCOCCOCCOCC#C
Form	Solid
Purity	98%
Identity	Confirmed by NMR.
Applications	Propargyl-PEG5-CH_2CO_2tBu is used in molecular biology and bioconjugation research, facilitating efficient copper-catalyzed click chemistry reactions with azide compounds or biomolecules, and enabling subsequent functionalization after *t*-butyl group deprotection, making it ideal for studying biomolecular interactions and developing targeted drug delivery systems.

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Storage	Store at -20°C.