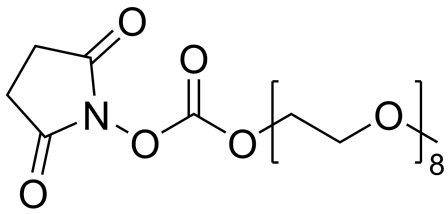
SUITE 201, 17 Ramsey Road, Shirley, NY 11967, USA
Tel: 1-631-637-6119 | Email: info@bioglyco.com

Product Information

Acid/Propargyl PEG reagent, Propargyl-PEG8-acid, Purity 98%



Cat. No.: X24-10-WXX170

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

CAS Number: 2055014-94-1

PubChem CID: 102514878

Synonym: Propargyl-PEG8-acid; 2055014-94-1; 3-[2-[2-[2-[2-[2-[2-(2-prop-2-ynoxyethoxy)ethoxy]ethoxy]ethoxy]ethoxy]ethoxy]propanoic acid; Alkyne-PEG8-COOH; Propargyl-PEG8-COOH

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

Product Information

Description	Propargyl-PEG8-acid has an acid group and an alkyne group, designed for copper-catalyzed click chemistry reactions. The acid group derivatizes amine-containing molecules in the presence of activators (EDC, HATU, *etc*). The PEG spacer increases water solubility.
Molecular Weight	436.5
Molecular Formula	$C_{20}H_{36}O_{10}$
Functional Group 1	Acid
Functional Group 2	Propargyl
Functional Group 3	None
Reactive Group 1	Amine
Reactive Group 2	Azide
IUPAC Name	3-[2-[2-[2-[2-[2-[2-(2-prop-2-ynoxyethoxy)ethoxy]ethoxy]ethoxy]ethoxy]ethoxy]propanoic acid
InChI	InChI=1S/C20H36O10/c1-2-4-23-6-8-25-10-12-27-14-16-29-18-19-30-17-15-28-13-11-26-9-7-24-5-3-20(21)22/h1H,3-19H2,(H,21,22)
InChI Key	QZQUQXNQKWZDNM-UHFFFAOYSA-N
Canonical SMILES	C#CCOCCOCCOCCOCCOCCOCCOCCOCCC(=O)O
Form	Liquid
Purity	98%
Solubility	Water, DMSO, DCM, DMF
Identity	Confirmed by NMR.
Applications	Propargyl-PEG8-acid is used in molecular biology and bioconjugation research, facilitating efficient

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	copper-catalyzed click chemistry reactions with azides and with azides, making it ideal for studying protein interactions and developing targeted drug delivery systems.
Storage	Store at -20°C.

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