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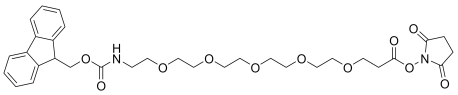
Product Information

Acid/Propargyl PEG reagent, Propargyl-PEG13-acid, Purity 98%



Cat. No.: X24-10-WXX155

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

CAS Number: 1421676-62-1

PubChem CID: 91757824

Synonym: Propargyl-PEG13-acid; 1421676-62-1; Propyne-PEG12-CH_2CH_2COOH; SCHEMBL21049840

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

Product Information

Description	Propargyl-PEG13-acid has a carboxylic acid and an alkyne group, designed for copper-catalyzed azide-alkyne click chemistry reactions. The carboxylic acid reacts with amine groups to form amide bonds in the presence of the activator(EDC, HATU, *etc*). The PEG spacer increases water solubility.
Molecular Weight	656.8
Molecular Formula	$C_{30}H_{56}O_{15}$
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-[2-[2-[2-[2-(2-prop-2-ynoxyethoxy)ethoxy]ethoxy]ethoxy]ethoxy]ethoxy]ethoxy]ethoxy]ethoxy]ethoxy]ethoxy]ethoxy]propanoic acid
InChI	InChI=1S/C30H56O15/c1-2-4-33-6-8-35-10-12-37-14-16-39-18-20-41-22-24-43-26-28-45-29-27-44-25-23-42-21-19-40-17-15-38-13-11-36-9-7-34-5-3-30(31)32/h1H,3-29H2,(H,31,32)
InChI Key	ZFFDQVFGKMOUSS-UHFFFAOYSA-N
Canonical SMILES	C#CCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCC(=O)O
Form	Liquid
Purity	98%
Solubility	Water, DMSO, DCM, DMF
Identity	Confirmed by NMR.
Applications	Propargyl-PEG13-acid is used in molecular biology and bioconjugation research, facilitating efficient

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	copper-catalyzed click chemistry reactions and enhancing water solubility for studies on biomolecular interactions and drug delivery systems.
Storage	Store at -20°C.

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