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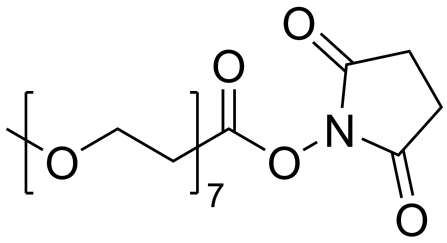
Product Information

Propargyl PEG reagent, Bis-propargyl-PEG12, Purity 98%



Cat. No.: X24-10-WXX173

Size: 250 mg; 500 mg; 1 g

CAS Number: 1351373-49-3

PubChem CID: 139593578

Synonym: Bis-propargyl-PEG11; 1351373-49-3; 4,7,10,13,16,19,22,25,28,31,34,37-Dodecaoxatetraconta-1,39-diyne; BEC37349; AKOS040743077

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

Product Information

Description	Bis-propargyl-PEG12 has two alkyne groups at both ends of the linker, designed for copper-catalyzed click chemistry reactions. The PEG spacer increases water solubility.
Molecular Weight	578.7
Molecular Formula	$C_{28}H_{50}O_{12}$
Functional Group 1	Propargyl
Functional Group 2	None
Functional Group 3	None
Reactive Group 1	Azide
IUPAC Name	3-[2-[2-[2-[2-[2-[2-[2-[2-[2-[2-(2-prop-2-ynoxyethoxy)ethoxy]ethoxy]ethoxy]ethoxy]ethoxy]ethoxy]ethoxy]ethoxy]ethoxy]prop-1-yne
InChI	InChI=1S/C28H50O12/c1-3-5-29-7-9-31-11-13-33-15-17-35-19-21-37-23-25-39-27-28-40-26-24-38-22-20-36-18-16-34-14-12-32-10-8-30-6-4-2/h1-2H,5-28H2
InChI Key	BTLUDNMRQXMTCO-UHFFFAOYSA-N
Canonical SMILES	C#CCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCC#C
Form	Oil
Purity	98%
Solubility	DMSO, DCM, DMF
Identity	Confirmed by NMR.
Applications	Bis-propargyl-PEG12 is used in molecular biology and bioconjugation research, facilitating efficient copper-catalyzed click chemistry reactions with azide compounds to form stable triazole linkages. Its

	unique structure lends itself to several applications across different fields, particularly in bioconjugation, drug delivery, and materials science.
Storage	Store at -20°C.