

Product Information

Nitrophenyl/Propargyl PEG reagent, Propargyl-PEG4-5-nitrophenyl carbonate, Purity 95%

Cat. No.: X24-10-WXX168

Size: 250 mg; 500 mg; 1 g; 5 g

CAS Number: 1422540-81-5

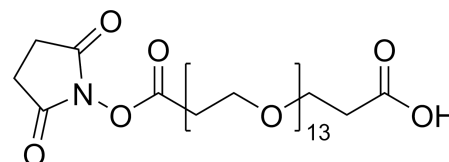
PubChem CID: 71551749

Synonym: Propargyl-PEG4-5-nitrophenyl carbonate; 1422540-81-5; 4-Nitrophenyl

3,6,9,12-tetraoxapentadec-14-ynyl carbonate; 4-nitrophenyl

(3,6,9,12-tetraoxapentadec-14-yn-1-yl) carbonate; AKOS040742474

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



Product Information

Description	Propargyl-PEG4-5-nitrophenyl carbonate is a heterobifunctional reagent with a nitrophenyl group and propargyl group, designed for copper-catalyzed click chemistry reactions. The nitrophenyl group is reactive towards the amino group of lysine by means of stable urethane linkages. The PEG spacer increases water solubility.
Molecular Weight	397.4
Molecular Formula	C ₁₈ H ₂₃ NO ₉
Functional Group 1	Nitrophenyl
Functional Group 2	Propargyl
Functional Group 3	None
Reactive Group 1	Azide
Reactive Group 2	Amine
IUPAC Name	(4-nitrophenyl) 2-[2-[2-(2-prop-2-ynoxyethoxy)ethoxy]ethoxy]ethyl carbonate
InChI	InChI=1S/C18H23NO9/c1-2-7-23-8-9-24-10-11-25-12-13-26-14-15-27-18(20)28-17-5-3-16(4-6-17)19(21)22/h1,3-6H,7-15H2
InChI Key	BRQWRLYCHVNDKS-UHFFFAOYSA-N
Canonical SMILES	C#CCOCCOCCOCCOCCOC(=O)OC1=CC=C(C=C1)[N+](=O)[O-]
Form	Liquid
Purity	95%
Identity	Confirmed by NMR.

Applications

Propargyl-PEG4-5-nitrophenyl carbonate is used in molecular biology and bioconjugation research, facilitating efficient copper-catalyzed click chemistry reactions with azide compounds or biomolecules, making it ideal for studying protein interactions and developing targeted drug delivery systems.

Storage

Store at -20°C.
