

DOTA-PEG5-C4-DBCO

Chemical Properties

CAS No. :

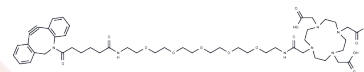
Formula: C₄₉H₇₁N₇O₁₄

Molecular Weight: 982.13

Store at low temperature

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	DOTA-PEG5-C4-DBCO is a PEG-based linker employed in PROTAC and bioconjugation applications, utilizing strain-promoted azide-alkyne cycloaddition (SPAAC) chemistry. The design of DOTA-PEG5-C4-DBCO enables ligation of functional ligands, facilitating targeted protein degradation via the ubiquitin-proteasome system and supporting modular assembly of advanced chemical probes.
Targets(IC50)	Others,PROTAC Linker
In vitro	PROTACs consist of two distinct ligands connected by a linker: one binds to an E3 ubiquitin ligase, while the other binds to the target protein. By leveraging the intracellular ubiquitin-proteasome system, PROTACs selectively degrade target proteins [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.0182 mL	5.091 mL	10.182 mL
5 mM	0.2036 mL	1.0182 mL	2.0364 mL
10 mM	0.1018 mL	0.5091 mL	1.0182 mL
50 mM	0.0204 mL	0.1018 mL	0.2036 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

An S, et al. Small-molecule PROTACs: An emerging and promising approach for the development of targeted therapy drugs. EBioMedicine. 2018 Oct;36:553-562

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481