DOTA-PEG5-C6-DBCO

Cat. No.: HY-140314

Molecular Formula: $C_{49}H_{71}N_7O_{14}$

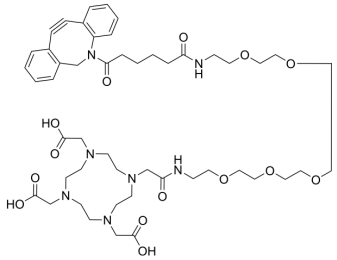
Molecular Weight: 982.13

Target: PROTAC Linkers

Pathway: PROTAC

Storage:

Powder	-20°C	3 years
In solvent	-80°C	6 months
	-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

H_2O : 125 mg/mL (127.27 mM; ultrasonic and warming and heat to 60°C)
DMSO : 125 mg/mL (127.27 mM; Need ultrasonic)

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	1.0182 mL	5.0910 mL	10.1820 mL
5 mM	0.2036 mL	1.0182 mL	2.0364 mL
10 mM	0.1018 mL	0.5091 mL	1.0182 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

DOTA-PEG5-C6-DBCO is a PEG-based PROTAC linker that can be used in the synthesis of PROTACs[1]. DOTA-PEG5-C6-DBCO is a click chemistry reagent, it contains a DBCO group that can undergo strain-promoted alkyne-azide cycloaddition (SPAAC) with molecules containing Azide groups.

IC_{50} & Target

PEGs

In Vitro

PROTACs contain two different ligands connected by a linker; one is a ligand for an E3 ubiquitin ligase and the other is for the target protein. PROTACs exploit the intracellular ubiquitin-proteasome system to selectively degrade target proteins[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. 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

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA