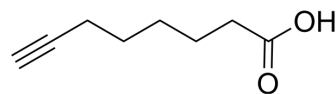


7-Octynoic acid

Cat. No.:	HY-69220		
CAS No.:	10297-09-3		
Molecular Formula:	C ₈ H ₁₂ O ₂		
Molecular Weight:	140.18		
Target:	PROTAC Linkers		
Pathway:	PROTAC		
Storage:	Pure form	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 150 mg/mL (1070.05 mM; Need ultrasonic)
 H₂O : 5 mg/mL (35.67 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent		Mass		
	Concentration		1 mg	5 mg	10 mg
	1 mM		7.1337 mL	35.6684 mL	71.3369 mL
	5 mM		1.4267 mL	7.1337 mL	14.2674 mL
	10 mM		0.7134 mL	3.5668 mL	7.1337 mL

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

In Vivo

- Add each solvent one by one: PBS
Solubility: 100 mg/mL (713.37 mM); Clear solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 3.75 mg/mL (26.75 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 3.75 mg/mL (26.75 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 3.75 mg/mL (26.75 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

7-Octynoic acid (compound 42) is a PROTAC linker and can be used in the synthesis of a series of PROTACs. 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]. 7-Octynoic acid is a click chemistry reagent, it contains an Alkyne group and can undergo copper-catalyzed azide-alkyne cycloaddition (CuAAC)

with molecules containing Azide groups.

IC₅₀ & Target

Alkyl-Chain

REFERENCES

[1]. Bai L, et al. A Potent and Selective Small-Molecule Degradator of STAT3 Achieves Complete Tumor Regression In Vivo. *Cancer Cell*. 2019 Nov 11;36(5):498-511.e17.

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