

7-Octynoic acid

Chemical Properties

CAS No.:	10297-09-3
Formula:	C ₈ H ₁₂ O ₂
Molecular Weight:	140.18
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

Biological Description

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].
Targets(IC ₅₀)	Alkyl/ether: None

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	7.134 mL	35.668 mL	71.337 mL
5 mM	1.427 mL	7.134 mL	14.267 mL
10 mM	0.713 mL	3.567 mL	7.134 mL
50 mM	0.143 mL	0.713 mL	1.427 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

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.

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