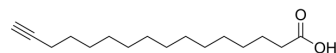


Alkynyl Palmitic Acid

Cat. No.:	HY-W040304		
CAS No.:	99208-90-9		
Molecular Formula:	C ₁₆ H ₂₈ O ₂		
Molecular Weight:	252.39		
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	DMSO : 100 mg/mL (396.21 mM; Need ultrasonic)																													
	Preparing Stock Solutions	<table border="1"> <thead> <tr> <th>Solvent</th> <th>Mass</th> <th>1 mg</th> <th>5 mg</th> <th>10 mg</th> </tr> </thead> <tbody> <tr> <td>Concentration</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>1 mM</td> <td></td> <td>3.9621 mL</td> <td>19.8106 mL</td> <td>39.6212 mL</td> </tr> <tr> <td>5 mM</td> <td></td> <td>0.7924 mL</td> <td>3.9621 mL</td> <td>7.9242 mL</td> </tr> <tr> <td>10 mM</td> <td></td> <td>0.3962 mL</td> <td>1.9811 mL</td> <td>3.9621 mL</td> </tr> </tbody> </table>	Solvent	Mass	1 mg	5 mg	10 mg	Concentration					1 mM		3.9621 mL	19.8106 mL	39.6212 mL	5 mM		0.7924 mL	3.9621 mL	7.9242 mL	10 mM		0.3962 mL	1.9811 mL	3.9621 mL			
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Please refer to the solubility information to select the appropriate solvent.																														
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: 2.5 mg/mL (9.91 mM); Suspended solution; Need ultrasonic																													
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 2.5 mg/mL (9.91 mM); Suspended solution; Need ultrasonic																													
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (9.91 mM); Clear solution																													

BIOLOGICAL ACTIVITY

Description	Alkynyl Palmitic Acid (Alk-C16) is an alkyl chain-based PROTAC linker that can be used in the synthesis of PROTACs ^[1] . Alkynyl Palmitic 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.
IC ₅₀ & Target	Alkyl-Chain
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.

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