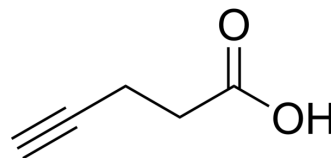


## 4-Pentynoic acid

Cat. No.:	HY-Y1230		
CAS No.:	6089-09-4		
Molecular Formula:	C <sub>5</sub> H <sub>6</sub> O <sub>2</sub>		
Molecular Weight:	98.1		
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 : 100 mg/mL (1019.37 mM; Need ultrasonic)					
	Preparing Stock Solutions	<div><div>Solvent</div><div>Concentration</div></div>	Mass	1 mg	5 mg	10 mg
		1 mM		10.1937 mL	50.9684 mL	101.9368 mL
		5 mM		2.0387 mL	10.1937 mL	20.3874 mL
		10 mM		1.0194 mL	5.0968 mL	10.1937 mL
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: ≥ 1.25 mg/mL (12.74 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 1.25 mg/mL (12.74 mM); Clear solution					
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 1.25 mg/mL (12.74 mM); Clear solution					

### BIOLOGICAL ACTIVITY

Description	4-Pentynoic acid (Propargylacetic acid) is an intermediate to produce biologically active compounds. 4-Pentynoic acid is widely utilized as a building block for the synthesis of eight sequence-defined model oligomers <sup>[1]</sup> . 4-Pentynoic 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.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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