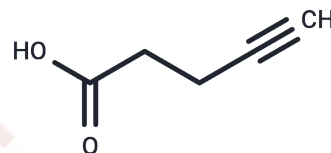


4-Pentynoic acid

Chemical Properties

CAS No. :	6089-09-4
Formula:	C ₅ H ₆ O ₂
Molecular Weight:	98.1
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	4-Pentynoic acid (Propargylacetic acid) reacts with 1-bromo-1-alkynes in the presence of a Pd catalyst to yield biologically active ynenol lactones and is used in the synthesis of a cytotoxic macrolide via ring-closing metathesis of a bis acetylene.
Targets(IC50)	Others

Solubility Information

Solubility	DMSO: 45 mg/mL (458.72 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 1 mg/mL (10.19 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
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
50 mM	0.2039 mL	1.0194 mL	2.0387 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Fuller, R., Snoddy, H., Roush, B., & Molloy, B. (1973). Elevation of hepatic tyrosine 2-oxoglutarate aminotransferase in rats by 4-pentynoic acid, a hypoglycemic agent. *Experientia*, 29(3), 277-278. doi: 10.1007/bf01926473

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