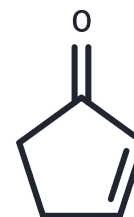


2-Cyclopentenone

Chemical Properties

CAS No. :	930-30-3
Formula:	C ₅ H ₆ O
Molecular Weight:	82.1
Storage:	Pure form: -20°C for 3 years In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	2-Cyclopentenone can inhibit the activity of HepG2 cells and has inhibitory activity against urease in Sporosarcina pasteurii.
Targets(IC50)	Apoptosis, Antibacterial

Solubility Information

Solubility	DMSO: 80 mg/mL (974.42 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: 3.3 mg/mL (40.19 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	12.1803 mL	60.9013 mL	121.8027 mL
5 mM	2.4361 mL	12.1803 mL	24.3605 mL
10 mM	1.218 mL	6.0901 mL	12.1803 mL
50 mM	0.2436 mL	1.218 mL	2.4361 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

Narkin K, et al. Thermal Decomposition of 2-Cyclopentenone. J Phys Chem A. 2024 Oct 24;128(42):9226-9234.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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