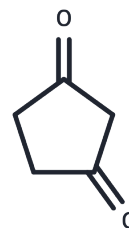


1,3-Cyclopentanedione

Chemical Properties

CAS No. :	3859-41-4
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 <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	1,3-Cyclopentanedione is employed in synthesizing chemical probes for selective sulfenic acid protein labeling. This versatile reagent is applied in perhydroazulene, PGB1 analogue, and Knoevenagel product synthesis.
Targets(IC50)	Others

Solubility Information

Solubility	DMSO: 80 mg/mL (815.49 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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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

Ikeuchi K, et al. Total Synthesis of (+)-Coriamyrtin via a Desymmetrizing Strategy Involving a 1,3-Cyclopentanedione Moiety. Org Lett. 2023 Apr 28;25(16):2751-2755.

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