

Propioin

Chemical Properties

CAS No. :	4984-85-4
Formula:	C ₆ H ₁₂ O ₂
Molecular Weight:	116.158
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	Propioin serves as a research chemical for the preparation of simple acyloins and benzoins.
Targets(IC50)	Others

Solubility Information

Solubility	DMSO: 2.00 mg/mL (17.22 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	8.6088 mL	43.0441 mL	86.0882 mL
5 mM	1.7218 mL	8.6088 mL	17.2176 mL
10 mM	0.8609 mL	4.3044 mL	8.6088 mL
50 mM	0.1722 mL	0.8609 mL	1.7218 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

- Pleiss J. Thermodynamic Activity-Based Interpretation of Enzyme Kinetics. Trends Biotechnol. 2017 May;35(5):379-382. doi: 10.1016/j.tibtech.2017.01.003. Epub 2017 Feb 9. PubMed PMID: 28190624.
- Mikolajek RJ, Spiess AC, Pohl M, Büchs J. Propioin synthesis using thiamine diphosphate-dependent enzymes. Biotechnol Prog. 2009 Jan-Feb;25(1):132-8. doi: 10.1002/btpr.55. PubMed PMID: 19224568.
- Mikolajek R, Spiess AC, Pohl M, Lamare S, Büchs J. An activity, stability and selectivity comparison of propioin synthesis by thiamine diphosphate-dependent enzymes in a solid/gas bioreactor. Chembiochem. 2007 Jun 18;8(9):1063-70. PubMed PMID: 17497614.

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