

Methyl 3-methoxyacrylate

Chemical Properties

CAS No. :	34846-90-7
Formula:	C ₅ H ₈ O ₃
Molecular Weight:	116.12
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	Methyl 3-methoxyacrylate is a naturally occurring lignan derivative. Structurally, it belongs to the class of β -methoxyacrylate analogues. It inhibits electron transport in mitochondrial cytochrome complexes, blocks cellular respiration, and exhibits antibacterial/bactericidal activity. Furthermore, as a key intermediate in fine chemical synthesis, methyl 3-methoxyacrylate is widely used in the pharmaceutical industry for the preparation of medicinal products such as the oral cephalosporin antibiotic ceftibuten, and it is also employed in the modification of polymeric materials.
Targets(IC50)	Others

Solubility Information

Solubility	DMSO: 80 mg/mL (688.94 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	8.6118 mL	43.0589 mL	86.1178 mL
5 mM	1.7224 mL	8.6118 mL	17.2236 mL
10 mM	0.8612 mL	4.3059 mL	8.6118 mL
50 mM	0.1722 mL	0.8612 mL	1.7224 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.

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