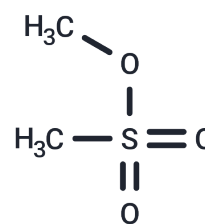


Methyl methanesulfonate

Chemical Properties

CAS No. :	66-27-3
Formula:	C ₂ H ₆ O ₃ S
Molecular Weight:	110.13
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	Methyl methanesulfonate is a DNA alkylator that modifies adenine (3-methyladenine) and guanine (7-methyladenine) respectively, resulting in base mismatch and replication disorders.
Targets(IC50)	DNA Alkylation, DNA Alkylator/Crosslinker, Necroptosis, ROS, MDM-2/p53

Solubility Information

Solubility	DMSO: 60 mg/mL (544.81 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	9.0802 mL	45.4009 mL	90.8018 mL
5 mM	1.816 mL	9.0802 mL	18.1604 mL
10 mM	0.908 mL	4.5401 mL	9.0802 mL
50 mM	0.1816 mL	0.908 mL	1.816 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

D T Beranek. Distribution of methyl and ethyl adducts following alkylation with monofunctional alkylating agents. Mutat Res. 1990 Jul;231(1):11-30.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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