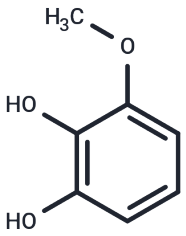
Data Sheet (Cat.No.T77555)

TargetMol

3-Methoxycatechol

Chemical Properties



CAS No. : 934-00-9

Formula: C7H8O3

Molecular Weight: 140.14

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	3-Methoxycatechol is a lignin-derived renewable chemical that promotes carcinogenesis in the esophagus.1,2-Dihydroxy-3-methoxybenzen exhibits strong antiviral activity against encephalomyelitis virus (EMCV).
Targets(IC50)	Others,Antiviral

Solubility Information

Solubility	DMSO: 50 mg/mL (356.79 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: 5 mg/mL (35.68 mM),Sonication is recommended. *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.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	7.1357 mL	35.6786 mL	71.3572 mL
5 mM	1.4271 mL	7.1357 mL	14.2714 mL
10 mM	0.7136 mL	3.5679 mL	7.1357 mL
50 mM	0.1427 mL	0.7136 mL	1.4271 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

Hirose M, et al. Effects of sodium nitrite and catechol or 3-methoxycatechol in combination on rat stomach epithelium. Jpn J Cancer Res. 1990;81(9):857-861.

Venkata Ramana Rao P, et al. Vibrational analysis of substituted phenols: part I. Vibrational spectra, normal coordinate analysis and transferability of force constants of some formyl-, methoxy-, formylmethoxy-, methyl- and halogeno-phenols. Spectrochim Acta A Mol Biomol Spectrosc. 2002;58(14):3039-3065.

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