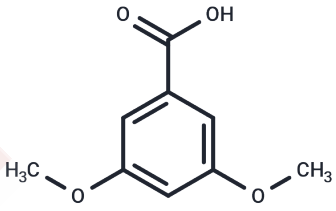
Data Sheet (Cat.No.T36736)

TargetMol

3,5-Dimethoxybenzoic acid

Chemical Properties



CAS No. : 1132-21-4

Formula: C9H10O4

Molecular Weight: 182.17

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	3,5-Dimethoxybenzoic acid is a benzoic acid derivative exhibiting antifungal activity against A. rabiei, suitable for biochemical experiments and drug synthesis research.
Targets(IC50)	Antifungal
In vitro	3,5-Dimethoxybenzoic acid (0.0039-4 mg/mL, 24-72 h) exhibits antibacterial activity against A. rabiei with anti-phoxinus phoxinus subsp. phoxinus properties, demonstrating a minimum inhibitory concentration (MIC) of 0.125 mg/mL. [1]

Solubility Information

Solubility	DMSO: 80 mg/mL (439.15 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: 3.3 mg/mL (18.11 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	5.4894 mL	27.4469 mL	54.8938 mL
5 mM	1.0979 mL	5.4894 mL	10.9788 mL
10 mM	0.5489 mL	2.7447 mL	5.4894 mL
50 mM	0.1098 mL	0.5489 mL	1.0979 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

Khajista Jabeen, et al. Antifungal Compounds From Melia Azedarach Leaves for Management of Ascochyta Rabiei, the Cause of Chickpea Blight. Nat Prod Res. 2011 Feb;25(3):264-76.

Yan Z, et al. Physicochemical properties and biological activities of new berberine-based salts with syringic acid as well as 3, 5-dimethoxybenzoic acid as anions: Effect of temperature, concentration and anion. Journal of Molecular Liquids, 2024, 399: 124395.