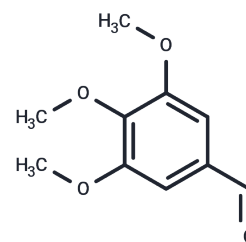


3,4,5-Trimethoxybenzaldehyde

Chemical Properties

CAS No. :	86-81-7
Formula:	C ₁₀ H ₁₂ O ₄
Molecular Weight:	196.2
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	3,4,5-Trimethoxybenzaldehyde shows anti-Candida efficacy and inhibits adhesion and biofilms.
Targets(IC50)	Anti-infection, Antibacterial

Solubility Information

Solubility	DMSO: 45 mg/mL (229.36 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: 2 mg/mL (10.19 mM), Sonication is recommended. <i>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.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	5.0968 mL	25.4842 mL	50.9684 mL
5 mM	1.0194 mL	5.0968 mL	10.1937 mL
10 mM	0.5097 mL	2.5484 mL	5.0968 mL
50 mM	0.1019 mL	0.5097 mL	1.0194 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

Basanti LalHiran, et al. Oxidation of 3,4,5-trimethoxybenzaldehyde by pyridinium fluorochromate in N,N-dimethyl formamide medium: A kinetic and mechanistic study. Arabian Journal of Chemistry. Volume 9, Supplement 1, September 2016, Pages S440-S445

Rajput SB, et al. Anti-Candida properties of asaronaldehyde of Acorus gramineus rhizome and three structural isomers. Chin Med. 2013 Sep 8;8(1):18.

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