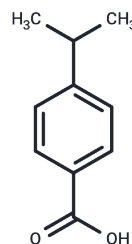


4-Isopropylbenzoic acid

Chemical Properties

CAS No. :	536-66-3
Formula:	C ₁₀ H ₁₂ O ₂
Molecular Weight:	164.2
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	4-Isopropylbenzoic acid (Cumic acid) is an aromatic monoterpene isolated from the stem bark of <i>Bridelia retusa</i> . 4-Isopropylbenzoic acid shows antifungal activities. 4-Isopropylbenzoic acid is also a reversible and uncompetitive mushroom tyrosinase inhibitor.
Targets(IC50)	Antifungal

Solubility Information

Solubility	H ₂ O: insoluble DMSO: 100 mg/mL (609.01 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: 4 mg/mL (24.36 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	6.0901 mL	30.4507 mL	60.9013 mL
5 mM	1.218 mL	6.0901 mL	12.1803 mL
10 mM	0.609 mL	3.0451 mL	6.0901 mL
50 mM	0.1218 mL	0.609 mL	1.218 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

Jayasinghe L, et, al. Antifungal constituents of the stem bark of Bridelia retusa. Phytochemistry. 2003 Feb;62(4): 637-41.

Huang XH, et, al. Inhibition of the activity of mushroom tyrosinase by alkylbenzoic acids. Food Chemistry. 2006 Jan; 94(1): 1-6.

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