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SZABO-SCANDIC Handels GmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

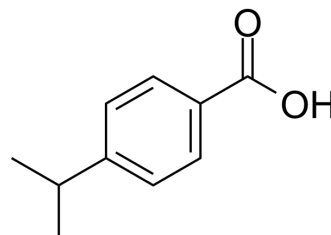
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4-Isopropylbenzoic acid

Cat. No.:	HY-W013571
CAS No.:	536-66-3
Molecular Formula:	C ₁₀ H ₁₂ O ₂
Molecular Weight:	164.2
Target:	Fungal
Pathway:	Anti-infection
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 6 months -20°C 1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (609.01 mM; Need ultrasonic)				
	Preparing Stock Solutions	Solvent Concentration Mass	1 mg	5 mg	10 mg
		1 mM	6.0901 mL	30.4507 mL	60.9013 mL
		5 mM	1.2180 mL	6.0901 mL	12.1803 mL
		10 mM	0.6090 mL	3.0451 mL	6.0901 mL
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (15.23 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 2.5 mg/mL (15.23 mM); Suspended solution; Need ultrasonic				
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (15.23 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	4-Isopropylbenzoic acid (Cuminic acid; p-Isopropyl benzoic acid) an aromatic monoterpene, is isolated from the stem bark of <i>Bridelia retusa</i> . 4-Isopropylbenzoic acid exhibits antifungal activities. 4-Isopropylbenzoic acid is also a reversible and uncompetitive inhibitor of mushroom tyrosinase ^{[1][2]} .
In Vitro	4-Isopropylbenzoic acid shows antifungal activity for <i>Cladosporium cladosporioides</i> ^[1] . 4-Isopropylbenzoic acid (200 µg/mL) completely inhibits the growth of <i>P. capsici</i> , <i>S. sclerotiorum</i> , <i>R. cerealis</i> ^[3] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Wang Y, et al. Potential use of cuminic acid as a botanical fungicide against *Valsa mali*. *Microb Pathog*. 2017 May;106:9-15.
 - [2]. Jayasinghe L, et, al. Antifungal constituents of the stem bark of *Bridelia retusa*. *Phytochemistry*. 2003 Feb;62(4):637-41.
 - [3]. 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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Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA