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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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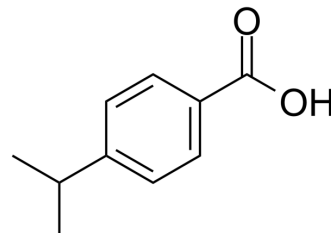
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4-Isopropylbenzoic acid

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

- 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
- 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
- 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, an aromatic monoterpene, is isolated from the stem bark of *Bridelia retusa*. 4-Isopropylbenzoic acid exhibits antifungal activities. 4-Isopropylbenzoic acid is also a reversible and uncompetitive inhibitor of mushroom tyrosinase^{[1][2]}.

REFERENCES

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

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

Caution: Product has not been fully validated for medical applications. For research use only.

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