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Produktinformation

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See the following pages for more information!

Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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3-Phenylbutyric acid

Cat. No.: HY-W017189

CAS No.: 4593-90-2

Molecular Formula: $C_{10}H_{12}O_2$

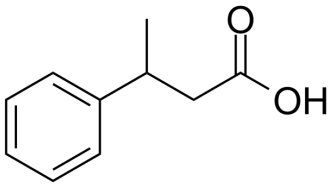
Molecular Weight: 164.2

Target: Endogenous Metabolite

Pathway: Metabolic Enzyme/Protease

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 / Mass / Concentration	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); Clear solution
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

3-Phenylbutyric acid is metabolized by initial oxidation of the benzene ring and by initial oxidation of the side chain. 3-Phenylbutyric acid can be used to isolate Rhodococcus rhodochrous PB1 from compost soil[1][2].

REFERENCES

[1]. Simoni S, et al. Enantioselective Metabolism of Chiral 3-Phenylbutyric Acid, an Intermediate of Linear Alkylbenzene Degradation, by Rhodococcus rhodochrous PB1.

Appl Environ Microbiol. 1996 Mar;62(3):749-55.

[2]. Sariaslani FS, et al. Degradation of 3-phenylbutyric acid by Pseudomonas sp. J Bacteriol. 1982 Oct;152(1):411-21.

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