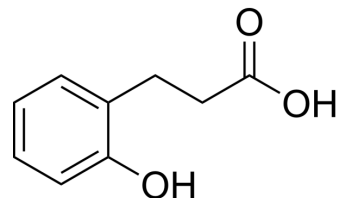


Melilotic acid

Cat. No.:	HY-W017158		
CAS No.:	495-78-3		
Molecular Formula:	C ₉ H ₁₀ O ₃		
Molecular Weight:	166.18		
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 : 250 mg/mL (1504.39 mM; Need ultrasonic)
 H₂O : ≥ 100 mg/mL (601.76 mM)
 * "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	6.0176 mL	30.0879 mL	60.1757 mL
	5 mM	1.2035 mL	6.0176 mL	12.0351 mL
	10 mM	0.6018 mL	3.0088 mL	6.0176 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: ≥ 2.08 mg/mL (12.52 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.08 mg/mL (12.52 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.08 mg/mL (12.52 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Melilotic acid is an endogenous metabolite.

IC₅₀ & Target

Human Endogenous Metabolite

Microbial Metabolite

Human Endogenous Metabolite

Microbial Metabolite

REFERENCES

[1]. LEVY CC, et al. THE METABOLISM OF COUMARIN BY A MICROORGANISM. II. THE REDUCTION OF O-COUMARIC ACID TO MELILOTIC ACID. Biochemistry. 1964 Dec;3:1944-7.

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

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