Homovanillic acid

Cat. No.: HY-N0384 CAS No.: 306-08-1 Molecular Formula: C₉H₁₀O₄ Molecular Weight: 182.17

Target: Endogenous Metabolite; Drug Metabolite

Pathway: Metabolic Enzyme/Protease

4°C, protect from light, stored under nitrogen Storage:

* In solvent: -80°C, 6 months; -20°C, 1 month (protect from light, stored under

nitrogen)

Product Data Sheet

SOLVENT & SOLUBILITY

In Vitro

DMSO: $\geq 100 \text{ mg/mL} (548.94 \text{ mM})$

H₂O: 8.33 mg/mL (45.73 mM; Need ultrasonic) * "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg
	1 mM	5.4894 mL	27.4469 mL	54.8938 mL
	5 mM	1.0979 mL	5.4894 mL	10.9788 mL
	10 mM	0.5489 mL	2.7447 mL	5.4894 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

- 1. Add each solvent one by one: PBS Solubility: 20 mg/mL (109.79 mM); Clear solution; Need ultrasonic
- 2. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (13.72 mM); Clear solution
- 3. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (13.72 mM); Clear solution
- 4. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (13.72 mM); Clear solution

BIOLOGICAL ACTIVITY

Description Homovanillic acid is a dopamine metabolite found to be associated with aromatic L-amino acid decarboxylase deficiency,

celiac disease, growth hormone deficiency, and sepiapterin reductase deficiency.

IC₅₀ & Target Microbial Metabolite Human Endogenous Metabolite

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 $\label{lem:caution:Product} \textbf{Caution: Product has not been fully validated for medical applications. For research use only.}$

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