Isovaleric acid

Cat. No.: HY-W012980 CAS No.: 503-74-2 Molecular Formula: C₅H₁₀O₂ Molecular Weight: 102.13

Target: **Endogenous Metabolite** Pathway: Metabolic Enzyme/Protease Storage: Pure form -20°C 3 years

> 4°C 2 years -80°C In solvent 6 months -20°C 1 month

Product Data Sheet

SOLVENT & SOLUBILITY

In Vitro

H₂O: 100 mg/mL (979.14 mM; Need ultrasonic) DMSO: 100 mg/mL (979.14 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg
	1 mM	9.7914 mL	48.9572 mL	97.9144 mL
	5 mM	1.9583 mL	9.7914 mL	19.5829 mL
	10 mM	0.9791 mL	4.8957 mL	9.7914 mL

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

In Vivo

- 1. Add each solvent one by one: PBS Solubility: 100 mg/mL (979.14 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 (24.48 mM); Clear solution
- 3. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (24.48 mM); Clear solution
- 4. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (24.48 mM); Clear solution

BIOLOGICAL ACTIVITY

Description Isovaleric acid is a natural fatty acid and known to effect on neonatal death and possible Jamaican vomiting sickness in

human.

IC₅₀ & Target Microbial Metabolite Human Endogenous Metabolite

REFERENCES			
[1]. Ackman RG, et al. Birthweights in the Faroe Islands: possible role of isovaleric acid. J Intern Med. 1989 Feb;225(2):73-5.			
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