

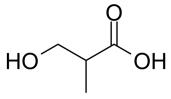
3-Hydroxyisobutyric acid

Cat. No.: HY-113126 CAS No.: 2068-83-9 Molecular Formula: $C_4H_8O_3$ Molecular Weight: 104.1

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

> 2 years -80°C In solvent 6 months

> > -20°C 1 month



SOLVENT & SOLUBILITY

In Vitro

H₂O: 100 mg/mL (960.61 mM; Need ultrasonic) DMSO: 100 mg/mL (960.61 mM; Need ultrasonic)

	Solvent Mass Concentration	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	9.6061 mL	48.0307 mL	96.0615 mL
2.55 25.44.0113	5 mM	1.9212 mL	9.6061 mL	19.2123 mL
	10 mM	0.9606 mL	4.8031 mL	9.6061 mL

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

In Vivo

- 1. Add each solvent one by one: PBS Solubility: 25 mg/mL (240.15 mM); Clear solution; Need ultrasonic and warming
- 2. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (24.02 mM); Clear solution
- 3. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (24.02 mM); Clear solution
- 4. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (24.02 mM); Clear solution

BIOLOGICAL ACTIVITY

Description 3-Hydroxyisobutyric acid is an important interorgan metabolite, an intermediate in the pathways of l-valine and thymine and a good gluconeogenic substrate.

IC₅₀ & Target Human Endogenous Metabolite

ectrometry. Clin Chim Acta. 2000 Feb 25;292(1-2):93-105.
Caution: Product has not been fully validated for medical applications. For research use only.
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