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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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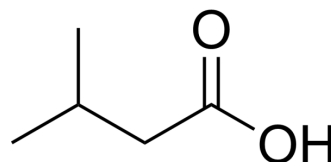
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Isovaleric acid

Cat. No.:	HY-W012980		
CAS No.:	503-74-2		
Molecular Formula:	C ₅ H ₁₀ O ₂		
Molecular Weight:	102.13		
Target:	Endogenous Metabolite		
Pathway:	Metabolic Enzyme/Protease		
Storage:	Pure form	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

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

	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	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

- Add each solvent one by one: PBS
Solubility: 100 mg/mL (979.14 mM); Clear solution; Need ultrasonic
- 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
- 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
- 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.

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

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