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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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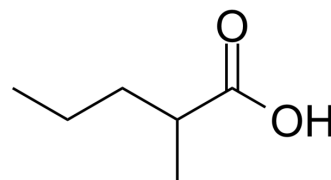
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2-Methylvaleric acid

Cat. No.:	HY-W010516		
CAS No.:	97-61-0		
Molecular Formula:	C ₆ H ₁₂ O ₂		
Molecular Weight:	116.16		
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	DMSO : 100 mg/mL (860.88 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	8.6088 mL	43.0441 mL	86.0882 mL
		5 mM	1.7218 mL	8.6088 mL	17.2176 mL
		10 mM	0.8609 mL	4.3044 mL	8.6088 mL
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (21.52 mM); Clear solution 2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (21.52 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	2-Methylvaleric acid (2-Methylpentanoic acid) is a short-chain fatty acid isolated from Campomanesia adamantium and dairy products. 2-Methylvaleric acid is also found in animal feces. 2-Methylvaleric acid is a flavor compound used for food-flavor ingredient, fragrances ^{[1][2][3]} .
IC₅₀ & Target	Human Endogenous Metabolite

REFERENCES

[1]. CHARLOTTE P. BRENNAND, et al. AROMA PROPERTIES AND THRESHOLDS OF SOME BRANCHED-CHAIN AND OTHER MINOR VOLATILE FATTY ACIDS OCCURRING IN MILKFAT AND MEAT LIPIDS1. September 1989.

[2]. StoneSá, et al. Phytochemistry and antimicrobial activity of Campomanesia adamantium. Revista Brasileira de Farmacognosia. Volume 28, Issue 3, May–June 2018, Pages 303-311

[3]. Menghan Li, et al. A sensitive method for the quantification of short-chain fatty acids by benzyl chloroformate derivatization combined with GC-MS. Analyst. 2020 Apr 7;145(7):2692-2700.

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

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