



# SZABO SCANDIC

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## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Lieferung & Zahlungsart

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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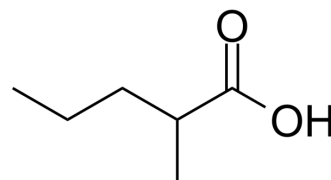
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## 2-Methylvaleric acid

<b>Cat. No.:</b>	HY-W010516		
<b>CAS No.:</b>	97-61-0		
<b>Molecular Formula:</b>	C <sub>6</sub> H <sub>12</sub> O <sub>2</sub>		
<b>Molecular Weight:</b>	116.16		
<b>Target:</b>	Endogenous Metabolite		
<b>Pathway:</b>	Metabolic Enzyme/Protease		
<b>Storage:</b>	Pure form	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 100 mg/mL (860.88 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	<b>Preparing Stock Solutions</b>	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.					
<b>In Vivo</b>	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

<b>Description</b>	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 <sup>[1][2][3]</sup> .
<b>IC<sub>50</sub> &amp; Target</b>	Human Endogenous Metabolite

### REFERENCES

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[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.

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

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