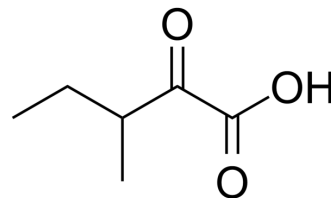


3-Methyl-2-oxovaleric acid

Cat. No.:	HY-113063		
CAS No.:	1460-34-0		
Molecular Formula:	C ₆ H ₁₀ O ₃		
Molecular Weight:	130.14		
Target:	Endogenous Metabolite		
Pathway:	Metabolic Enzyme/Protease		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 130 mg/mL (998.92 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	7.6840 mL	38.4202 mL	76.8403 mL
		5 mM	1.5368 mL	7.6840 mL	15.3681 mL
10 mM		0.7684 mL	3.8420 mL	7.6840 mL	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (15.98 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (15.98 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (15.98 mM); Clear solution 				

BIOLOGICAL ACTIVITY

Description	3-Methyl-2-oxovaleric acid is a neurotoxin, an acidogen, and a metabotoxin, and also an abnormal metabolite that arises from the incomplete breakdown of branched-chain amino acids.
IC₅₀ & Target	Human Endogenous Metabolite

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

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