

3-Methylvaleric Acid

Chemical Properties

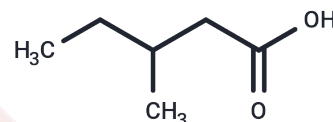
CAS No. : 105-43-1

Formula: C₆H₁₂O₂

Molecular Weight: 116.16

Storage: Pure form: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	3-Methylvaleric Acid is an edible grade flavor present in tobacco. 3-Methylvaleric Acid enhances intracellular cAMP accumulation and CRE-luciferase activity in CHO-K1 cells and HEK293 cells.
Targets(IC50)	Endogenous Metabolite, Antibacterial

Solubility Information

Solubility	DMSO: 90 mg/mL (774.79 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 3.3 mg/mL (28.41 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
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
50 mM	0.1722 mL	0.8609 mL	1.7218 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Kandra G, et al. Modified branched-chain amino acid pathways give rise to acyl acids of sucrose esters exuded from tobacco leaf trichomes. Eur J Biochem. 1990;188(2):385-391.

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