Data Sheet (Cat.No.T19122)



3-Methylvaleric Acid

Chemical Properties

CAS No.: 105-43-1 Formula: C6H12O2

Molecular Weight: 116.16

Appearance: no data available

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

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)	Others, Endogenous Metabolite

Solubility Information

9	Solubility	DMSO: 90.0 mg/mL (774.8 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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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.

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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