

methyl 2-hydroxy-4-methylvalerate

Chemical Properties

CAS No. :	40348-72-9
Formula:	C7H14O3
Molecular Weight:	146.184
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	Methyl 2-hydroxy-4-methylvalerate [Methyl 2-hydroxyisovalerate] is a predominant volatile compound found in Zhenjiang aromatic vinegar.
Targets(IC50)	Others

Solubility Information

Solubility	DMSO: 100.00 mg/mL (684.07 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: 4.00 mg/mL (27.36 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	6.8409 mL	34.2044 mL	68.4088 mL
5 mM	1.3682 mL	6.8409 mL	13.6818 mL
10 mM	0.6841 mL	3.4204 mL	6.8409 mL
50 mM	0.1368 mL	0.6841 mL	1.3682 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

Wu LH, et al. Metagenomics reveals flavour metabolic network of cereal vinegar microbiota. Food Microbiol. 2017 Apr;62:23-31.

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