

4-Methyl-1-pentanol

Chemical Properties

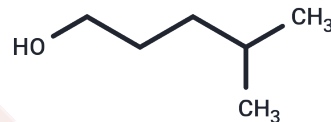
CAS No. : 626-89-1

Formula: C₆H₁₄O

Molecular Weight: 102.18

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

Actual storage temperature shall be subject to the COA.



Biological Description

Description	4-Methyl-1-pentanol exhibits inhibitory activity against SCC-25 cells and NHK cells (normal human keratinocytes), making it useful for cancer research.
Targets(IC50)	Others
In vitro	4-Methyl-1-pentanol (32 μM, 30 minutes) can antagonize the inhibitory effect of 1-butanol on cell adhesion (NIH/3T3 cells, mediated by L1 adhesion factor). [1]

Solubility Information

Solubility	DMSO: 80 mg/mL (782.93 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 (32.3 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	9.7867 mL	48.9333 mL	97.8665 mL
5 mM	1.9573 mL	9.7867 mL	19.5733 mL
10 mM	0.9787 mL	4.8933 mL	9.7867 mL
50 mM	0.1957 mL	0.9787 mL	1.9573 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

Selli S, et, al. Volatile composition of red wine from cv. Kalecik Karası grown in central Anatolia

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