

3-Pentanol

Chemical Properties

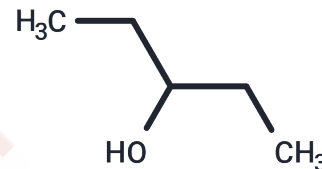
CAS No. : 584-02-1

Formula: C₅H₁₂O

Molecular Weight: 88.15

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	3-Pentanol is an endogenous metabolite in plants that is widely used in biochemical experiments and drug synthesis research.
Targets(IC50)	Endogenous Metabolite,Antibacterial
In vitro	A. cremastogyne plants treated with a suspension of nodules release 3-Pentanol.[1]

Solubility Information

Solubility	DMSO: 80 mg/mL (907.54 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 (37.44 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	11.3443 mL	56.7215 mL	113.443 mL
5 mM	2.2689 mL	11.3443 mL	22.6886 mL
10 mM	1.1344 mL	5.6721 mL	11.3443 mL
50 mM	0.2269 mL	1.1344 mL	2.2689 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

Xu Y, et al. 3-Pentanol glycosides from root nodules of the actinorhizal plant *Alnus cremastogyne*. *Phytochemistry*. 2023 Mar;207:113582.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481