

1-Octacosanol

Chemical Properties

CAS No. : 557-61-9

Formula: C₂₈H₅₈O

Molecular Weight: 410.76

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	1-Octacosanol (Octanosol) is a straight-chain aliphatic 28-carbon primary fatty alcohol that is used as a nutritional supplement. It is reported to possess cholesterol-lowering effects, antiaggregatory properties, cytoprotective use, and ergogenic properties.
Targets(IC50)	Others

Solubility Information

Solubility	Chloroform, Dichloromethane, Ethyl Acetate, Acetone, etc.: Soluble, DMSO: < 1 mg/mL (insoluble or slightly soluble) (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4345 mL	12.1726 mL	24.3451 mL
5 mM	0.4869 mL	2.4345 mL	4.869 mL
10 mM	0.2435 mL	1.2173 mL	2.4345 mL
50 mM	0.0487 mL	0.2435 mL	0.4869 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

Cravotto, G., Calcio Gaudino, E., Barge, A., Binello, A., Albertino, A., & Aghemo, C. (2010). Synthesis of 1-octacosanol and GC-C-IRMS discrimination of samples from different origin. *Natural Product Research*, 24(5), 428-439. doi: 10.1080/14786410903194498

Feng, S., Luo, Z., Zeng, F., Liu, S., & Khan, Z. (2015). Effect of water, metallic ions, fatty acid and temperature on oxidative stability of 1-octacosanol from sugarcane rind. *Food Chemistry*, 182, 171-177. doi: 10.1016/j.foodchem.2015.03.003

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