

1-Docosanol

Chemical Properties

CAS No. :	661-19-8
Formula:	C ₂₂ H ₄₆ O
Molecular Weight:	326.6
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-Docosanol (Behenic alcohol) is a saturated 22-carbon aliphatic alcohol with antiviral activity. 1-Docosanol has a distinct mechanism of action and inhibits fusion between the plasma membrane and the herpes simplex virus envelope, thereby preventing viral entry into cells and subsequent viral activity and replication. 1-Docosanol is used topically in the treatment of recurrent herpes simplex labialis episodes and relieves associated pain and may help heal sores faster.
Targets(IC50)	Antifection,HSV

Solubility Information

Solubility	DMSO: 3.27 mg/mL (10.01 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	3.0618 mL	15.3092 mL	30.6185 mL
5 mM	0.6124 mL	3.0618 mL	6.1237 mL
10 mM	0.3062 mL	1.5309 mL	3.0618 mL
50 mM	0.0612 mL	0.3062 mL	0.6124 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

Leung DT, Sacks SL. Expert Opin PharmacOther. 2004 Dec;5(12):2567-71.

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