

1-Hydroxyoctadecane

Chemical Properties

CAS No. :	112-92-5
Formula:	C ₁₈ H ₃₈ O
Molecular Weight:	270.49
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	1-Hydroxyoctadecane (Octadecanol/Octadecanol) is a fatty alcohol present in human and is normally incorporated into plasmalogen lipids. Sjogren-Larsson syndrome is defined by the triad of ichthyosis, mental retardation, and spasticity, and patients accumulate fatty alcohols such as Octadecanol in the plasma and cultured fibroblasts.
Targets(IC ₅₀)	Others, Endogenous Metabolite

Solubility Information

Solubility	H ₂ O: Insoluble, DMSO: 1 mg/ml, Sonication is recommended. Methanol: 10 mg/mL, (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.697 mL	18.485 mL	36.9699 mL
5 mM	0.7394 mL	3.697 mL	7.394 mL
10 mM	0.3697 mL	1.8485 mL	3.697 mL
50 mM	0.0739 mL	0.3697 mL	0.7394 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.

Reference

Koone MD, et al. Ichthyosis, mental retardation, and asymptomatic spasticity. A new neurocutaneous syndrome with normal fatty alcohol:NAD⁺ oxidoreductase activity. Arch Dermatol. 1990 Nov;126(11):1485-90.

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