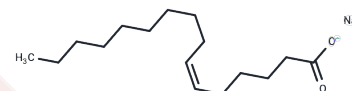


Sapienic acid sodium

Chemical Properties

CAS No. :	217477-25-3
Formula:	C ₁₆ H ₂₉ NaO ₂
Molecular Weight:	276.4
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	Sapienic acid sodium is a fatty acid with variable antimicrobial activities against Gram-positive and Gram-negative bacteria found on the skin and in the oral cavity.
Targets(IC50)	Antibacterial
In vitro	Sapienic acid is active against Streptococcus sanguinis, Streptococcus mitis, and Fusobacterium nucleatum. Kinetic assays show that killing of S. sanguinis and S. mitis with sapienic acid is gradual and occurred within 24 h[1].

Solubility Information

Solubility	Ethanol: 0.7 mg/mL (2.53 mM), Sonication is recommended. DMSO: < 1 mg/mL (insoluble), 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	3.6179 mL	18.0897 mL	36.1795 mL
5 mM	0.7236 mL	3.6179 mL	7.2359 mL
10 mM	0.3618 mL	1.809 mL	3.6179 mL
50 mM	0.0724 mL	0.3618 mL	0.7236 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

Fischer CL, et al. Antibacterial activity of sphingoid bases and fatty acids against Gram-positive and Gram-negative bacteria. Antimicrob Agents Chemother. 2012 Mar;56(3):1157-61.

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