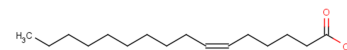


Sapienic acid

Chemical Properties

CAS No.:	17004-51-2
Formula:	C ₁₆ H ₃₀ O ₂
Molecular Weight:	254.41
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



Biological Description

Description	Sapienic acid is a fatty acid commonly found on the skin and in the mucosa. Sapienic acid is active against <i>Streptococcus sanguinis</i> , <i>Streptococcus mitis</i> , and <i>Fusobacterium nucleatum</i> with MBC values of 31.3 µg/mL, 375.0 µg/mL and 93.8 µg/mL, respectively.
Targets(IC ₅₀)	MBC: 31.3 µg/ml <i>Streptococcus sanguinis</i> : 375.0 µg/ml <i>Streptococcus mitis</i> : 93.8 µg/ml <i>Fusobacterium nucleatum</i> : None
In vitro	Sapienic acid (minimum bactericidal concentrations (MBCs) range, 31.3 to 375.0 µg/mL) is active against <i>Streptococcus sanguinis</i> , <i>Streptococcus mitis</i> , and <i>Fusobacterium nucleatum</i> but not active against <i>Escherichia coli</i> , <i>Staphylococcus aureus</i> , <i>S. marcescens</i> , <i>P. aeruginosa</i> , <i>Corynebacterium bovis</i> , <i>Corynebacterium striatum</i> , and <i>Corynebacterium jeikeium</i> (MBC > 500 µg/mL) [1].

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
------------	---

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.931 mL	19.653 mL	39.307 mL
5 mM	0.786 mL	3.931 mL	7.861 mL
10 mM	0.393 mL	1.965 mL	3.931 mL
50 mM	0.079 mL	0.393 mL	0.786 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. 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.

Inhibitors · Natural Compounds · Compound Libraries

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:36 Washington Street,Wellesley Hills,MA 02481