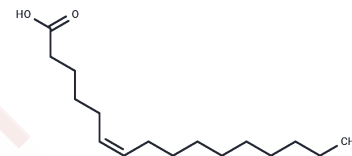


Sapienic acid

Chemical Properties

CAS No. :	17004-51-2
Formula:	C16H30O2
Molecular Weight:	254.41
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, a fatty acid commonly found on the skin and in the mucosa, 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(IC50)	Others,Antibacterial
In vitro	Sapienic acid (minimum bactericidal concentrations (MBCs) range, 31.3 to 375.0 µg/mL) is effective against <i>Streptococcus sanguinis</i> , <i>Streptococcus mitis</i> , and <i>Fusobacterium nucleatum</i> but not 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].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.9307 mL	19.6533 mL	39.3066 mL
5 mM	0.7861 mL	3.9307 mL	7.8613 mL
10 mM	0.3931 mL	1.9653 mL	3.9307 mL
50 mM	0.0786 mL	0.3931 mL	0.7861 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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