Data Sheet (Cat.No.T13041)



Surfactin

Chemical Properties

CAS No.: 24730-31-2

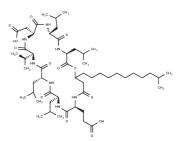
Formula: C53H93N7O13

Molecular Weight: 1036.34

Appearance: no data available

Storage: Revider: 20% for 3 years Un selvent: 20%

Powder: -20°C for 3 years | In solvent: -80°C for 1 year



Biological Description

Description	Surfactin is a potent cyclic lipopeptide biosurfactants that mediates flux of mono-and divalent cations, such as calcium, across lipid bilayer membranes, with anti-bacteria anti-fungal, antimycoplasma and hemolytic effects.	
Targets(IC50)	HSV	
In vitro	Surfactin is used as a surfactant to mediate flux of mono-and divalent cations, such as calcium, across lipid bilayer membranes. surfactin can increase the activity of amoxicillin against avian pathogenic Escherichia coli (APEC) in vitro with antimicrobial assays such as minimum inhibitory concentrations (MIC) and fractional inhibitory concentration (FIC).	
In vivo	in the model of chick infection, surfactin exerted adjuvant effects with amoxicillin against APEC by lowering the numerical value of mortality and liver bacterial loads, and regulating the expression of inflammatory cytokines et al.We concluded that surfactin can act as a novel antimicrobial adjuvant with amoxicillin against AEPC infection in chicken.	

Solubility Information

Solubility	H2O: 28.25 mg/mL (27.26 mM),Sonication is recommended.		
DMSO: 47 mg/mL (45.35 mM), Sonication is recommended.			
	(< 1 mg/ml refers to the product slightly soluble or insoluble)		

Page 1 of 2 www.targetmol.com

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.9649 mL	4.8247 mL	9.6493 mL
5 mM	0.193 mL	0.9649 mL	1.9299 mL
10 mM	0.0965 mL	0.4825 mL	0.9649 mL
50 mM	0.0193 mL	0.0965 mL	0.193 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

Liu J, et al. Sensitization of avian pathogenic Escherichia coli to amoxicillin in vitro and in vivo in the presence of surfactin. PLoS One. 2019 Sep 12;14(9):e0222413.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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

Page 2 of 2 www.targetmol.com