

SAAP 148

Chemical Properties

CAS No. :

Formula: C157H261N49O27

Molecular Weight:

Keep away from moisture

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	SAAP 148 is an antimicrobial and antibiofilm agent that demonstrates inhibitory activity against antibiotic-resistant pathogens, with an LC50 of 0.8-12.8 μ M.
Targets(IC50)	Antibacterial
In vitro	SAAP-148 inhibits <i>S. aureus</i> and <i>P. aeruginosa</i> in PBS and plasma, with LC99 values of 1.6, 1.6, 12.8, and 12.8 μ M, respectively. At concentrations of 0.4-3.2 μ M over 2 hours, SAAP-148 interacts with bacterial membranes, causing permeabilization and leading to bacterial death.
In vivo	SAAP-148 (30 mg of 0.125-2% w/w ointment, applied topically as a single dose) effectively eradicates Methicillin-resistant <i>S. aureus</i> (MRSA) and <i>A. baumannii</i> on the skin, alleviating abraded skin infections in a mouse model without exhibiting toxicity (2000 mg/kg).

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481