

CAP 3

Chemical Properties

CAS No. :

Formula:

Molecular Weight:

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	CAP 3 is a cholic acid-peptide conjugate (CAP) with antibacterial activity. It is active against the Gram-negative bacteria <i>E. coli</i> , <i>K. pneumoniae</i> , and <i>A. baumannii</i> (MIC _{99s} = 8, 16, and 16 μ M, respectively). CAP 3 increases the fluidity of model Gram-negative bacterial membranes and binds to LPS in vitro. It reduces the biomass and number of colony-forming units in <i>E. coli</i> biofilms in a concentration-dependent manner. CAP 3 inhibits <i>E. coli</i> biofilm formation on catheters implanted in mice infected with <i>E. coli</i> at the incision site when applied as a coating on the catheters. CAP 3 (40 mg/kg) also reduces bacterial load in <i>E. coli</i> -infected wounds in mice. It is cytotoxic to A459 cells (IC ₅₀ = 56.4 μ M) and has hemolytic activity against human red blood cells with a 50% lysis (HC ₅₀) value of 48 μ M.
Targets(IC ₅₀)	Others

Solubility Information

Solubility	DMSO: 10 mg/mL, Sonication is recommended. DMF: 5 mg/mL, Sonication is recommended. PBS (pH 7.2): 3 mg/mL, Sonication is recommended. Ethanol: 10 mg/mL, Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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