

HSGN-218

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	HSGN-218 is a gut-restrictive antibiotic. It is active against <i>C. difficile</i> (MIC = 0.007 µg/ml) and clinical isolates of <i>C. difficile</i> (MICs = 0.003-0.03 µg/ml) and is not cytotoxic to Caco-2 cells when used at concentrations ranging from 4 to 64 µg/ml. HSGN-218 (50 mg/kg) increases survival and protects mice from <i>C. difficile</i> recurrence in mouse models of <i>C. difficile</i> infection.
Targets (IC50)	Others, Antibacterial

Solubility Information

Solubility	DMSO:PBS (pH 7.2) (1:3): 0.25 mg/mL, Sonication is recommended. DMF: 30 mg/mL, Sonication is recommended. Ethanol: 1 mg/mL, Sonication is recommended. DMSO: 30 mg/mL, Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Reference

Naclerio, G.A., Abutaleb, N.S., Li, D., et al. Ultrapotent inhibitor of *Clostridioides difficile* growth, which suppresses recurrence in vivo. *Med. Chem.* 63(20)11934-11944(2020)

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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