

OP-145 TFA

Chemical Properties

CAS No. :

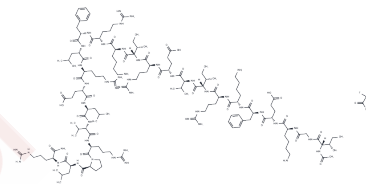
Formula: C142H246N46O31.XCF3COOH

Molecular Weight: 3093.76

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

OP-145, a derivative of the antimicrobial peptide LL-37, is a synthetic antimicrobial peptide showing activity against *E. coli*, *P. aeruginosa*, *C. albicans*, and *A. niger*, with minimum inhibitory concentrations (MICs) of 2, 3, 6, and 18 μM , respectively. Utilizing poly(lactic-co-glycolic acid) (PLGA) microspheres loaded with OP-145 effectively prevents biofilm formation in a mouse model of bone infection, which is initiated by surgical femoral fracture and subsequent bacterial inoculation at the fracture site.

Solubility Information

Solubility

H2O: Soluble
(< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.3232 mL	1.6162 mL	3.2323 mL
5 mM	0.0646 mL	0.3232 mL	0.6465 mL
10 mM	0.0323 mL	0.1616 mL	0.3232 mL
50 mM	0.0065 mL	0.0323 mL	0.0646 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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