

Magainin 2 TFA

Chemical Properties

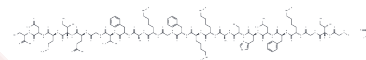
CAS No. :

Formula: C114H180N30O29S.XCF3COOH

Molecular Weight: 2466.90

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	Magainin 2, a cationic peptide derived from the African clawed frog (<i>X. laevis</i>) skin, exhibits host defense and antimicrobial properties. This compound effectively inhibits a range of pathogens, including <i>E. coli</i> , <i>K. pneumoniae</i> , <i>S. epidermidis</i> , <i>S. aureus</i> bacteria, and <i>C. albicans</i> fungus, with minimum inhibitory concentrations (MICs) of 5, 10, 10, 50, and 80 µg/ml, respectively. Additionally, at a concentration of 20 µM, Magainin 2 significantly reduces the germination and tube elongation in kiwi fruit pollen. It also curtails viral replication in Vero cells infected by herpes simplex virus 1 (HSV-1) or HSV-2, with half-maximal effective concentrations (EC50s) of 22.16 and 19.8 µM, respectively, while demonstrating low toxicity to these cells, shown by a 50% cytotoxic concentration (CC50) greater than 100 µM.
Targets(IC50)	Others

Solubility Information

Solubility	DMSO: 10 mg/mL (4.05 mM), Sonication is recommended. DMF: 5 mg/mL (2.03 mM), Sonication is recommended. PBS pH 7.2: 5 mg/mL (2.03 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.4054 mL	2.0268 mL	4.0537 mL
5 mM	0.0811 mL	0.4054 mL	0.8107 mL
10 mM	0.0405 mL	0.2027 mL	0.4054 mL
50 mM	0.0081 mL	0.0405 mL	0.0811 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

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