Data Sheet (Cat.No.T10750)



Cecropin A TFA (80451-04-3 free base)

Chemical Properties

CAS No.: T10750

Formula: C186H314N53O48F3

Molecular Weight: 4117.8

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Biological Description

Description	Cecropin A TFA is an antimicrobial polypeptide isolated from Hyalaphora cecropia pupae with anti-inflammatory, anti-bacterial, and anti-cancer activity.
Targets(IC50)	Others
In vitro	Cecropin A (10, 20, 30, 40, and 50 μ M) induces cytotoxicity on HL-60 cells in a dose-dependent manner [1]. Cecropin A shows good antibacterial activity against both multidrug-resistant Gram-negative bacteria such as A. baumanii and multidrug-resistant P. aeruginosa (IC50s: 0.5-1 μ M). Cecropin A (0.1, 0.25 μ M) exhibits anti-inflammatory activities. Cecropin A (25 μ M) effectively suppresses the expression of mTNF- α , mIL-1 β , and mMIP-2 mRNA and slightly inhibits the expression of mMIP-1 mRNA. Cecropin A also effectively inhibits LPS-induced phosphorylation of ERK, JNK, p38 MAPK, and reduced the expression of COX-2 [2].

Solubility Information

Solubility	H2O: 50 mg/mL (12.14 mM),	
	(< 1 mg/ml refers to the product slightly soluble or insoluble)	

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.2428 mL	1.2142 mL	2.4285 mL
5 mM	0.0486 mL	0.2428 mL	0.4857 mL
10 mM	0.0243 mL	0.1214 mL	0.2428 mL
50 mM	0.0049 mL	0.0243 mL	0.0486 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.

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Reference

Cerón JM, et al. The antimicrobial peptide cecropin A induces caspase-independent cell death in human promyelocytic leukemia cells. Peptides. 2010 Aug;31(8):1494-503.



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