

## BMAP 28 (bovine) TFA

## Chemical Properties

CAS No. :

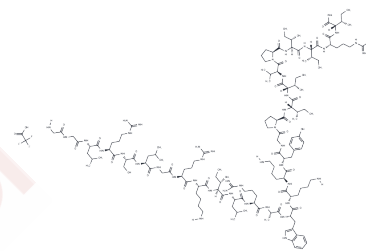
Formula: C145H250N44O29.XCF3COOH

Molecular Weight: 3073.82

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

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Bovine Myeloid Antimicrobial Peptide (BMAP) 28, a synthetic peptide derived from bovine cathelicidin-5 (amino acids 132-158), exhibits antimicrobial activity against *E. coli*, *S. aureus*, MRSA, *S. epidermidis*, and the fungus *C. albicans*, with minimum inhibitory concentrations (MICs) of 2, 2, 4, 1, and 8  $\mu\text{M}$  respectively. At a concentration of 200 nM, BMAP 28 permeabilizes the inner membrane of *E. coli*, and at 5  $\mu\text{M}$ , it inhibits herpes simplex virus 1 (HSV-1) replication in Vero 76 cells. Furthermore, at 30  $\mu\text{M}$ , it causes hemolysis in human erythrocytes and cytotoxicity in human neutrophils. In vivo, a dose of 0.8 mg/kg enhances survival in mice infected with *E. coli* or MRSA, but not *P. aeruginosa*.

## Solubility Information

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

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.3253 mL	1.6266 mL	3.2533 mL
5 mM	0.0651 mL	0.3253 mL	0.6507 mL
10 mM	0.0325 mL	0.1627 mL	0.3253 mL
50 mM	0.0065 mL	0.0325 mL	0.0651 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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