

## BING TFA

## Chemical Properties

CAS No. :

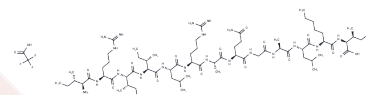
Formula: C67H125N21O15.XCF3COOH

Molecular Weight: 1464.84

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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BING, an antimicrobial peptide discovered in Japanese medaka fish (*O. latipes*), originates from vacuolar protein sorting-associated protein 13D-like (Vps13D). It exhibits efficacy against a range of Gram-negative and Gram-positive bacteria, notably including methicillin-resistant *S. aureus* (MRSA; MICs = 4-64 µg/ml). Furthermore, BING enhances the effectiveness of antibiotics such as ampicillin, amoxicillin, and novobiocin against *P. aeruginosa*, and it prevents resistance development to kanamycin and ampicillin in *E. coli*. Notably, its administration in vivo significantly improves survival rates in *O. latipes* challenged with *E. tarda*.

## Solubility Information

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DMSO: Slightly soluble  
DMF: Slightly soluble  
( $< 1$  mg/ml refers to the product slightly soluble or insoluble)

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.6827 mL	3.4133 mL	6.8267 mL
5 mM	0.1365 mL	0.6827 mL	1.3653 mL
10 mM	0.0683 mL	0.3413 mL	0.6827 mL
50 mM	0.0137 mL	0.0683 mL	0.1365 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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