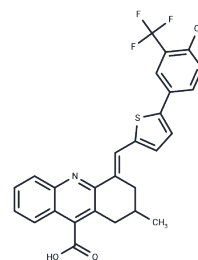


## Antibacterial agent 256

## Chemical Properties

CAS No. :	3052804-28-8
Formula:	C <sub>27</sub> H <sub>19</sub> ClF <sub>3</sub> NO <sub>2</sub> S
Molecular Weight:	513.96
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	Antibacterial agent 256 (Compound C09) is an inhibitor of Type I signal peptidase (SPase I). It targets Gram-positive bacteria, effectively inhibiting <i>S. aureus</i> ATCC 29213, <i>E. faecium</i> QF31, <i>E. faecalis</i> SF23-1, and <i>S. suis</i> P1/7, with MIC values ranging from 1-16 µg/mL. In cancer cells HEP-2 and Caco-2, Antibacterial agent 256 exhibits cytotoxicity with CC50 values of 14.65 µg/mL and 21.93 µg/mL, respectively. Additionally, it shows hemolytic activity on mouse red blood cells with an HC50 of 13.29 µg/mL and can improve MRSA skin infections in mouse models.
Targets(IC50)	Others, Antibacterial

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.9457 mL	9.7284 mL	19.4568 mL
5 mM	0.3891 mL	1.9457 mL	3.8914 mL
10 mM	0.1946 mL	0.9728 mL	1.9457 mL
50 mM	0.0389 mL	0.1946 mL	0.3891 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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