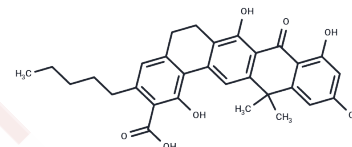


Benastatin B

Chemical Properties

CAS No. :	138968-86-2
Formula:	C30H30O7
Molecular Weight:	502.55
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	Benastatin B is a polyketide synthase-derived benastatin that has been found in <i>Streptomyces</i> and has diverse biological activities. It inhibits glutathione S-transferase (GST; $K_i = 3.7 \mu\text{M}$ for the rat liver enzyme). ² Benastatin B also inhibits the transglycosylase activity of <i>A. baumannii</i> , <i>C. difficile</i> , <i>E. coli</i> , and <i>S. aureus</i> recombinant penicillin-binding proteins (PBPs; IC_{50} s = 16, 53.3, 30.7, and 31.6 μM , respectively). ³ It is active against several bacteria, including methicillin-resistant <i>S. aureus</i> (MRSA; MIC = 3.12 $\mu\text{g/ml}$).
Targets(IC_{50})	Others, Antibacterial, GST

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.9899 mL	9.9493 mL	19.8985 mL
5 mM	0.398 mL	1.9899 mL	3.9797 mL
10 mM	0.199 mL	0.9949 mL	1.9899 mL
50 mM	0.0398 mL	0.199 mL	0.398 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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