

Mollicellin K

Chemical Properties

CAS No. :	1179374-63-0
Formula:	C ₂₁ H ₁₈ O ₇
Molecular Weight:	382.37
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	Mollicellin K is a benzophenone derivative isolated from <i>Chaetomium brasiliense</i> . It exhibits antibacterial activity against <i>Mycobacterium tuberculosis</i> , antimalarial activity against <i>Plasmodium falciparum</i> (IC ₅₀ = 1.2 μM), and antifungal activity against <i>Candida albicans</i> (IC ₅₀ = 1.2 μM). Additionally, Mollicellin K demonstrates cytotoxicity towards KB cells (IC ₅₀ = 1.9 μM), BC1 cells (IC ₅₀ = 6.8 μM), NCI-H187 cells (IC ₅₀ = 0.35 μM), and five cholangiocarcinoma cell lines. The minimum inhibitory concentration (MIC) for tuberculosis is 12.5 μM.
Targets(IC ₅₀)	Parasite

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.6153 mL	13.0763 mL	26.1527 mL
5 mM	0.5231 mL	2.6153 mL	5.2305 mL
10 mM	0.2615 mL	1.3076 mL	2.6153 mL
50 mM	0.0523 mL	0.2615 mL	0.5231 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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