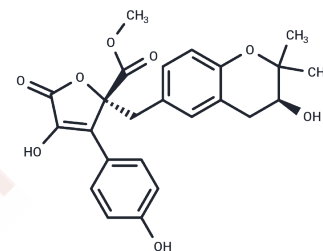


Butyrolactone V

Chemical Properties

CAS No. :	1151509-01-1
Formula:	C ₂₄ H ₂₄ O ₈
Molecular Weight:	440.44
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	Butyrolactone V is a fungal metabolite that has been found in <i>A. terreus</i> and has antiprotozoal, antioxidant, and anticancer activities. ^{1,2,3} It is active against the <i>P. falciparum</i> strain K1 (IC ₅₀ = 7.9 µg/ml) and <i>L. amazonensis</i> promastigotes (IC ₅₀ = 23.7 µM). ^{2,1} Butyrolactone V (227 and 454.1 µM) is also active against adult <i>S. mansoni</i> worms. ¹ It scavenges 2,2-diphenyl-1-picrylhydrazyl and ABTS radicals with IC ₅₀ values of 20.7 and 3.7 µM, respectively, in cell-free assays. ³ Butyrolactone V also inhibits proliferation of MDA-MB-231 and MCF-7 breast cancer cells (IC ₅₀ s = 22.2 and 31.9 µM, respectively). ¹
Targets(IC ₅₀)	Others,Parasite

Solubility Information

Solubility	DMSO: Soluble (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.2705 mL	11.3523 mL	22.7046 mL
5 mM	0.4541 mL	2.2705 mL	4.5409 mL
10 mM	0.227 mL	1.1352 mL	2.2705 mL
50 mM	0.0454 mL	0.227 mL	0.4541 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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