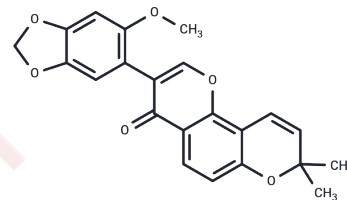


Jamaicin

Chemical Properties

CAS No. :	24211-36-7
Formula:	C ₂₂ H ₁₈ O ₆
Molecular Weight:	378.37
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	Jamaicin (AnCoA4), an isoflavone derived from the chickweed plant, is an inhibitor of the STIM1-Orai1 channel that blocks calcium influx, reduces its interaction with STIM1, and inhibits T-cell activation.
Targets(IC50)	Calcium Channel

Solubility Information

Solubility	DMSO: 22.3 mg/mL (58.94 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.6429 mL	13.2146 mL	26.4292 mL
5 mM	0.5286 mL	2.6429 mL	5.2858 mL
10 mM	0.2643 mL	1.3215 mL	2.6429 mL
50 mM	0.0529 mL	0.2643 mL	0.5286 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.

Reference

Huong Doan Thi Mai, et al. Cytotoxic prenylated isoflavone and bipterocarpan from *Millettia pachyloba*. *Planta Med.* 2010 Oct;76(15):1739-42.

Sadaghiani AM, Lee SM, Odegaard JI, Leveson-Gower DB, McPherson OM, Novick P, Kim MR, Koehler AN, Negrin R, Dolmetsch RE, Park CY. Identification of Orai1 channel inhibitors by using minimal functional domains to screen small molecule microarrays. *Chem Biol.* 2014 Oct 23;21(10):1278-1292. doi: 10.1016/j.chembiol.2014.08.016. Epub 2014 Oct 9. PubMed PMID: 25308275.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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