

Eriocalyxin B

Chemical Properties

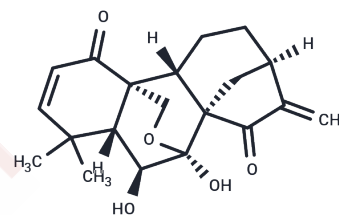
CAS No. : 84745-95-9

Formula: C₂₀H₂₄O₅

Molecular Weight: 344.4

Storage: Keep away from direct sunlight, Store under nitrogen
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	Eriocalyxin B induces apoptosis and cell cycle arrest in pancreatic adenocarcinoma cells through caspase- and p53-dependent pathways, should be considered a candidate for pancreatic cancer treatment; it is a specific inhibitor of STAT3, it directly targets STAT3 through a covalent linkage to inhibit the phosphorylation and activation of STAT3 and induces apoptosis of STAT3-dependent tumor cells.
Targets(IC50)	Apoptosis, cAMP, NF-κB, Akt, FABP, CDK, STAT, Autophagy, mTOR, PPAR, ROS
In vitro	In this study, we demonstrated that Eriocalyxin B was efficacious in experimental autoimmune encephalomyelitis (EAE), an animal model for multiple sclerosis. Treatment with Eriocalyxin B led to amelioration of EAE, which correlated with reduced spinal cord inflammation and demyelination. Eriocalyxin B treatment abolished encephalitogenic T-cell responses to myelin oligodendrocyte glycoprotein in an adoptive transfer EAE model. The underlying mechanism of Eriocalyxin B-induced effects involved inhibition of T helper (Th) 1 and Th17 cell differentiation through Janus Kinase/Signal Transducer and Activator Of Transcription and Nuclear factor-κB signaling pathways as well as elevation of reactive oxygen species[1]

Solubility Information

Solubility	DMSO: 55 mg/mL (159.7 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	2.9036 mL	14.518 mL	29.036 mL
5 mM	0.5807 mL	2.9036 mL	5.8072 mL
10 mM	0.2904 mL	1.4518 mL	2.9036 mL
50 mM	0.0581 mL	0.2904 mL	0.5807 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

Eriocalyxin B ameliorates experimental autoimmune encephalomyelitis by suppressing Th1 and Th17 cells. Proc Natl Acad Sci U S A. 2013 Feb 5;110(6):2258-63.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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