

## Eriocalyxin B

## Chemical Properties

CAS No.:	84745-95-9
Formula:	C <sub>20</sub> H <sub>24</sub> O <sub>5</sub>
Molecular Weight:	344.4
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

## 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(IC <sub>50</sub> )	STAT: None cAMP: None p65: None
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	< 1 mg/ml refers to the product slightly soluble or insoluble
------------	---

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.904 mL	14.518 mL	29.036 mL
5 mM	0.581 mL	2.904 mL	5.807 mL
10 mM	0.29 mL	1.452 mL	2.904 mL
50 mM	0.058 mL	0.29 mL	0.581 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. 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.

[Inhibitors](#) · [Natural Compounds](#) · [Compound Libraries](#)

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use.

Tel:781-999-4286

E-mail:[info@targetmol.com](mailto:info@targetmol.com)

Address:36 Washington Street,Wellesley Hills,MA 02481