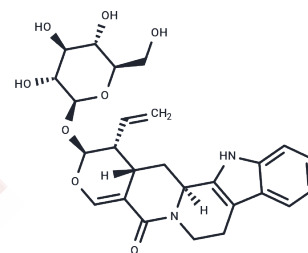


Strictosamide

Chemical Properties

CAS No. :	23141-25-5
Formula:	C ₂₆ H ₃₀ N ₂ O ₈
Molecular Weight:	498.52
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	Strictosamide possesses antibacterial and antiviral activities, it also may have important effects on inflammation and inflammatory pain.
Targets(IC50)	ATPase,NF-κB,Akt,NO Synthase,Parasite,Antifungal,Interleukin,JNK,p38 MAPK,PERK,PI3K, Potassium Channel,Sodium Channel
In vitro	At 20 and 40 mg/kg, strictosamide obviously decreased the TPA-induced mice ear edema (24.7 and 28.1% inhibition, respectively), and significantly inhibited acetic acid-stimulated peritoneal vascular permeability in mice (23.3 and 33.4% inhibition, respectively).?It also significantly decreased the leukocytes in the mice peritoneal cavity induced by CMC-Na at all the tested doses (46.0, 49.1, and 58.7% inhibition, respectively).?To acetic acid-induced writhing test in mice, strictosamide markedly prolonged the pain latency at 20 and 40 mg/kg and decreased the writhing counts at 40 mg/kg (49.7% inhibition).?However, it did not obviously improve the pain threshold of mice in hot-plate test[2].

Solubility Information

Solubility	DMSO: 50 mg/mL (100.3 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (4.01 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.0059 mL	10.0297 mL	20.0594 mL
5 mM	0.4012 mL	2.0059 mL	4.0119 mL
10 mM	0.2006 mL	1.003 mL	2.0059 mL
50 mM	0.0401 mL	0.2006 mL	0.4012 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

Synthesis and Biological Evaluation of Strictosamide Derivatives with Improved Antiviral and Antiproliferative Activities. *Chem Biol Drug Des.* 2015 Oct;86(4):523-30.

Li N , Cao L , Cheng Y , et al. In vivo anti-inflammatory and analgesic activities of strictosamide from *Nauclea officinalis*]. *Pharmaceutical Biology*, 2014, 52(11):1445-50.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481