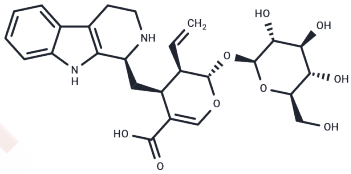
Data Sheet (Cat.No.TN2240)

TargetMol

Strictosidinic acid

Chemical Properties



CAS No. : 150148-81-5

Formula: C26H32N2O9

Molecular Weight: 516.54

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	Strictosidinic acid is a glycosylated indole monoterpene alkaloid isolated from the leaves of Psychotria myriantha. Strictosidinic acid exhibits oral bioactivity, inhibiting the precursor enzymes involved in 5-HT biosynthesis and reducing 5-HT levels. Strictosidinic acid possesses analgesic and antipyretic activity.
Targets(IC50)	Others,5-HT Receptor
In vitro	Methods: Rat brain mitochondria were preincubated with different concentrations of strictosidinic acid (0.1-500 μg/mL) at 37°C for 30 minutes, and the inhibition rates of MAO-A and MAO-B activity were measured using a fluorescence assay. Results: Strictosidinic acid inhibited MAO-A activity in a concentration-dependent manner, with an IC_{50} of 150.1 ± 1.25 μg/mL and a maximum inhibition rate of 68.67%. [1]
In vivo	Methods: Male Wistar rats were administered Strictosidinic acid (10 mg/kg) via intraperitoneal injection. They were euthanized 60 minutes after administration, and hippocampal tissue was harvested. Results: Compared with the control group, the Strictosidinic acid-treated group showed a 63.4% decrease in 5-HT levels and a 67.4% decrease in DOPAC levels in the hippocampus.[1]

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.936 mL	9.6798 mL	19.3596 mL
5 mM	0.3872 mL	1.936 mL	3.8719 mL
10 mM	0.1936 mL	0.968 mL	1.936 mL
50 mM	0.0387 mL	0.1936 mL	0.3872 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

Farias FM, et al. Strictosidinic acid, isolated from Psychotria myriantha Mull. Arg. (Rubiaceae), decreases serotonin levels in rat hippocampus. Fitoterapia. 2012;83(6):1138-1143.
F M Farias, et al. Monoamine Levels in Rat Striatum After Acute Intraperitoneal Injection of Strictosidinic Acid Isolated From Psychotria Myriantha Mull. Arg. (Rubiaceae). Phytomedicine. 2010 Mar;17(3-4):289-91.