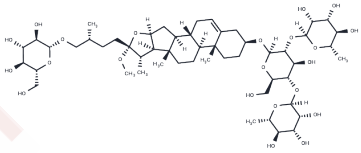
Data Sheet (Cat.No.T3771)

TargetMol

Methyl protodioscin

Chemical Properties



CAS No. : 54522-52-0

Formula: C52H86O22

Molecular Weight: 1063.23

Appearance: no data available

Storage: keep away from moisture,store at low temperature, store under nitrogen
Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Biological Description

Description	Methyl protodioscin (Smilax saponin B) potentially increase HDL cholesterol while reducing LDL cholesterol and triglycerides. Methyl protodioscin has antitumor property. Methyl protodioscin induced apoptotic process in human A549 cells is closely associated with Mitochondrial membrane potential, caspase-3, and mitochondrial cytochrome c.
Targets(IC50)	Apoptosis

Solubility Information

Solubility	DMSO: 16.67 mg/mL (15.68 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.9405 mL	4.7027 mL	9.4053 mL
5 mM	0.1881 mL	0.9405 mL	1.8811 mL
10 mM	0.0941 mL	0.4703 mL	0.9405 mL
50 mM	0.0188 mL	0.0941 mL	0.1881 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.

Reference

Ma W,et al.Methyl protodioscin increases ABCA1 expression and cholesterol efflux while inhibiting gene expressions for synthesis of cholesterol and triglycerides by suppressing SREBP transcription and microRNA 33a/b levels.Atherosclerosis. 2015 Apr;239(2):566-70.

Bai Y,et al.Methyl protodioscin induces G2/M cell cycle arrest and apoptosis in A549 human lung cancer cells. Pharmacogn Mag. 2014 Jul;10(39):318-24.

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