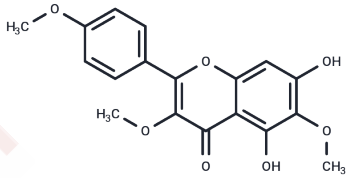
Data Sheet (Cat.No.TN6204)

TargetMol

Santin

Chemical Properties



CAS No. : 27782-63-4

Formula: C18H16O7

Molecular Weight: 344.32

Storage: Store at low temperature
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	Santin (5,7-Dihydroxy-3,6,4'-trimethoxyflavone) is a flavonoid extracted from birch buds exerting antiproliferative, anti-influenza activity and anti-cancer activity. Santin can be used in studies about anti-IAV drugs.
Targets(IC50)	Influenza Virus
In vitro	Santin significantly reduces viability, proliferation, and clonogenicity of gastric (AGS), colon (DLD-1), and liver (HepG2) cancer cells. Santin induces apoptosis, accompanied by activation of caspase-3, caspase-7, caspase-8 and caspase-9[1]. Santin shows anti-influenza activity in MDCK and THP-1 cells[2].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.9043 mL	14.5214 mL	29.0428 mL
5 mM	0.5809 mL	2.9043 mL	5.8086 mL
10 mM	0.2904 mL	1.4521 mL	2.9043 mL
50 mM	0.0581 mL	0.2904 mL	0.5809 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

Szoka L, et al. Santin and cirsimaritin from Betula pubescens and Betula pendula buds induce apoptosis in human digestive system cancer cells. J Cell Mol Med. 2021 Dec;25(24):11085-11096.

Zhong M, et al. Santin inhibits influenza A virus replication through regulating MAPKs and NF-κB pathways. J Asian Nat Prod Res. 2019 Dec;21(12):1205-1214.

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