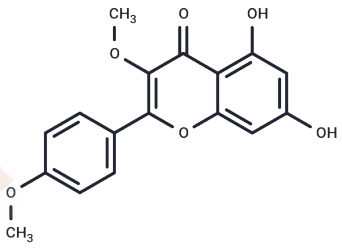
Data Sheet (Cat.No.TN1622)

TargetMol

Ermanin

Chemical Properties



CAS No. : 20869-95-8

Formula: C17H14O6

Molecular Weight: 314.29

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	Ermanin, a flavonoid isolated from Tanacetum microphyllum, inhibits platelet aggregation and exhibits anti-tuberculosis, anti-viral/bacterial, and potential anti-HIV-1 activities. It has anti-inflammatory properties through the inhibition of iNOS and COX-2 expression and is effective at lower concentrations in inhibiting Dione juno larvae.
Targets(IC50)	NOS,HIV Protease,Antibacterial,NO Synthase,Antibiotic,COX,Influenza Virus
In vitro	Ermanin (3.25, 6.25, 12.5, and 25 μM) on modulation of LPS-induced iNOS and COX-2 expression in RAW 264.7 cells. Ermanin decreased LPS-induced COX-2 and iNOS expression by 94 ± 0.5% and 94 ± 0.5% with IC50 were 1.68 μM and 6.70 μM, respectively. [1]

Solubility Information

Solubility	DMSO: 100 mg/mL (318.18 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.1818 mL	15.9089 mL	31.8177 mL
5 mM	0.6364 mL	3.1818 mL	6.3635 mL
10 mM	0.3182 mL	1.5909 mL	3.1818 mL
50 mM	0.0636 mL	0.3182 mL	0.6364 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

Guerra JA, et al. Inhibition of inducible nitric oxide synthase and cyclooxygenase-2 expression by flavonoids isolated from Tanacetum microphyllum. Int Immunopharmacol. 2006;6(11):1723-1728.
Appunni S, et al. Targeting PknB, an eukaryotic-like serine/threonine protein kinase of Mycobacterium tuberculosis with phytomolecules. Comput Biol Chem. 2017;67:200-204.
Chen JJ, et al. New Sesquiterpenoids and Anti-Platelet Aggregation Constituents from the Rhizomes of Curcuma zedoaria. Molecules. 2016;21(10):1385.

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