

Meranzin

Chemical Properties

CAS No. : 23971-42-8

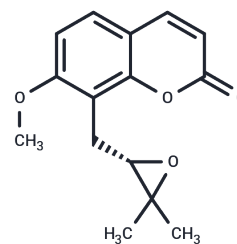
Formula: C₁₅H₁₆O₄

Molecular Weight: 260.29

Storage: Keep away from direct sunlight, 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	Meranzin, a bioactive compound derived from the Traditional Chinese Medicine (TCM) Chaihu-Shugan-San (CSS) and isolated from <i>Murraya exotica</i> L. leaves, targets the alpha 2-adrenoceptor and engages the AMPA-ERK1/2-BDNF signaling pathway. It offers promising potential for preventing the comorbidity of atherosclerosis and depression due to its significant anti-inflammatory and analgesic properties.
Targets(IC50)	Adrenergic Receptor, Immunology/Inflammation related

Solubility Information

Solubility	DMSO: 45 mg/mL (172.88 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 (7.68 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	3.8419 mL	19.2093 mL	38.4187 mL
5 mM	0.7684 mL	3.8419 mL	7.6837 mL
10 mM	0.3842 mL	1.9209 mL	3.8419 mL
50 mM	0.0768 mL	0.3842 mL	0.7684 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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