

6-Demethoxytangeretin

Chemical Properties

CAS No. : 6601-66-7

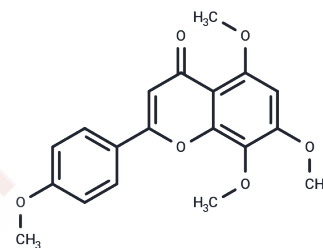
Formula: C₁₉H₁₈O₆

Molecular Weight: 342.34

Keep away from direct sunlight

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	6-Demethoxytangeretin, a citrus flavonoid isolated from Citrus depressa.
Targets(IC50)	ERK,MAPK,Akt,STAT,ALK,Interleukin,JAK,JNK,p38 MAPK
In vitro	6-Demethoxytangeretin exerts anti-inflammatory activity and anti-allergic activity, suppresses production and gene expression of interleukin-6 in human mast cell-1 via ALK and MAPK pathways [1]. 6-Demethoxytangeretin facilitates the Cre-mediated transcription associated with learning and memory in cultured hippocampal neurons

Solubility Information

Solubility	DMSO: 3.43 mg/mL (10.02 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.9211 mL	14.6054 mL	29.2107 mL
5 mM	0.5842 mL	2.9211 mL	5.8421 mL
10 mM	0.2921 mL	1.4605 mL	2.9211 mL
50 mM	0.0584 mL	0.2921 mL	0.5842 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

Kim YM, et al. A citrus flavonoid, 6-demethoxytangeretin, suppresses production and gene expression of interleukin-6 in human mast cell-1 via anaplastic lymphoma kinase and mitogen-activated protein kinase pathways. Biol Pharm Bull. 2014;37(5):871-6. Epub 2014 Feb 5.

Kawahata I, et al. Potent activity of nobiletin-rich Citrus reticulata peel extract to facilitate cAMP/PKA/ERK/CREB signaling associated with learning and memory in cultured hippocampal neurons: identification of the substances responsible for the pharmacological action. J Neural Transm (Vienna). 2013 Oct;120(10):1397-409.

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