

Methyl-Hesperidin

Chemical Properties

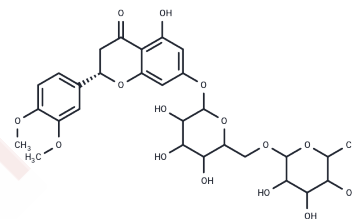
CAS No. : 11013-97-1

Formula: C₂₉H₃₆O₁₅

Molecular Weight: 624.5871

Storage: Keep away from direct sunlight
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	Methyl Hesperidin, a flavanone glycoside (flavonoid) (C ₂₈ H ₃₄ O ₁₅), is abundant in citrus fruits. Its aglycone form is called hesperetin.
Targets(IC50)	Akt,PKC
In vivo	Methyl Hesperidin can bind to human serum albumin, with a binding constant between 18 and 34 mM. Long-term carcinogenicity studies have demonstrated that Methyl Hesperidin has no carcinogenic effects on B6C3F1 mice after 96 weeks of feeding. Additionally, Methyl Hesperidin, in conjunction with Hesperidin, can inhibit the phosphorylation of Akt and PKC, resulting in decreased expression of TNF- α -induced VCAM-1.

Solubility Information

Solubility	H ₂ O: insoluble Ethanol: < 1 mg/mL (insoluble or slightly soluble), DMSO: 166.7 mg/mL (266.9 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 (3.2 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	1.6011 mL	8.0053 mL	16.0105 mL
5 mM	0.3202 mL	1.6011 mL	3.2021 mL
10 mM	0.1601 mL	0.8005 mL	1.6011 mL
50 mM	0.032 mL	0.1601 mL	0.3202 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

Nizamutdinova IT, et al. *Int Immunopharmacol*, 2008, 8(5), 670-678.

Li J, et al. *Spectrochim Acta A Mol Biomol Spectrosc*, 2013, 102, 200-204.

Kurata Y, et al. *Food Chem Toxicol*, 1990, 28(9), 613-618.

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