

4-Hydroxyflavanone

Chemical Properties

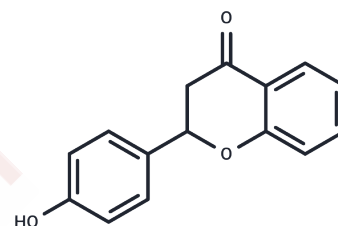
CAS No. : 6515-37-3

Formula: C₁₅H₁₂O₃

Molecular Weight: 240.25

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	4-Hydroxyflavanone is a natural product, shows full vasorelaxing effects
Targets(IC50)	NO Synthase
In vitro	4'-hydroxyflavanone were evaluated for the inhibition of nitric oxide production in lipopolysaccharide (LPS)-stimulated product of nitrite in RAW 264.7 cells with IC50 values of 15.72[1].

Solubility Information

Solubility	DMSO: 12 mg/mL (49.95 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 (8.32 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	4.1623 mL	20.8117 mL	41.6233 mL
5 mM	0.8325 mL	4.1623 mL	8.3247 mL
10 mM	0.4162 mL	2.0812 mL	4.1623 mL
50 mM	0.0832 mL	0.4162 mL	0.8325 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

Yang C S , Huang H C , Wang S Y , et al. New Diphenol and Isocoumarins from the Aerial Part of Lawsonia inermis and Their Inhibitory Activities against NO Production[J]. Molecules, 2016, 21(10).

Calderone V , Chericoni S , Martinelli C , et al. Vasorelaxing effects of flavonoids: investigation on the possible involvement of potassium channels[J]. Naunyn Schmiedebergs Archives of Pharmacology, 2004, 370(4):290-298.

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