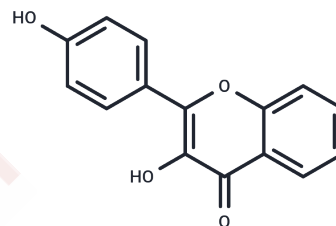


3,4'-Dihydroxyflavone

Chemical Properties

CAS No. :	14919-49-4
Formula:	C ₁₅ H ₁₀ O ₄
Molecular Weight:	254.24
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	3,4'-Dihydroxyflavone (3,4'-DHF) is an orally active flavonoid that exhibits antiviral activity against the Influenza A virus.
Targets(IC50)	Influenza Virus
In vivo	'3,4'-Dihydroxyflavone (3,4'-DHF; PO, 1 mg/kg per 30 µL, daily for 5 days) significantly decreases lung virus titers and pathological changes, as well as reduces body weight loss and mortality[1].
Animal Research	Animal Model: 3,4'-Dihydroxyflavone (3,4'-DHF; PO,1 mg/kg per 30 µL,daily,5 days) significantly decreases virus titers and pathological changes in the lung and reduced body weight loss and death[1].Dosage: 1 mg/kg per 30 µL. Administration: Oral administration daily for 5 days.

Solubility Information

Solubility	DMSO: 155 mg/mL (609.66 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	3.9333 mL	19.6665 mL	39.3329 mL
5 mM	0.7867 mL	3.9333 mL	7.8666 mL
10 mM	0.3933 mL	1.9666 mL	3.9333 mL
50 mM	0.0787 mL	0.3933 mL	0.7867 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

Hossain MK, et al. Antiviral activity of 3,4'-dihydroxyflavone on influenza a virus. J Microbiol. 2014 Jun;52(6):521-6.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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