

3,4'-Dihydroxyflavone

Chemical Properties

CAS No.:	14919-49-4
Formula:	C ₁₅ H ₁₀ O ₄
Molecular Weight:	254.24
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

Biological Description

Description	3,4'-Dihydroxyflavone (3,4'-DHF) is an oral active flavonoid with antiviral activity against Influenza A virus[1].
Targets(IC ₅₀)	Influenza A: None
In vivo	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]

Solubility Information

Solubility	DMSO: 155 mg/mL (69.66 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.933 mL	19.666 mL	39.333 mL
5 mM	0.787 mL	3.933 mL	7.867 mL
10 mM	0.393 mL	1.967 mL	3.933 mL
50 mM	0.079 mL	0.393 mL	0.787 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

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

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Tel:781-999-4286

E-mail:info@targetmol.com

Address:36 Washington Street,Wellesley Hills,MA 02481