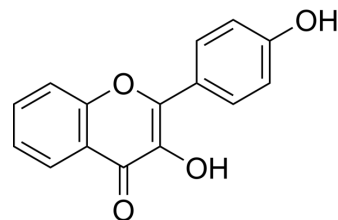


3,4'-Dihydroxyflavone

Cat. No.:	HY-111802		
CAS No.:	14919-49-4		
Molecular Formula:	C ₁₅ H ₁₀ O ₄		
Molecular Weight:	254.24		
Target:	Influenza Virus		
Pathway:	Anti-infection		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 155 mg/mL (609.66 mM)
 * "≥" means soluble, but saturation unknown.

Concentration	Mass		
	1 mg	5 mg	10 mg
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

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

3,4'-Dihydroxyflavone (3,4'-DHF) is an oral active flavonoid with antiviral activity against Influenza A virus^[1].

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].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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.

Result:	Significantly decreased virus titers and pathological changes in the lung and reduced body weight loss and death.
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REFERENCES

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

Caution: Product has not been fully validated for medical applications. For research use only.

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