

Norwogonin

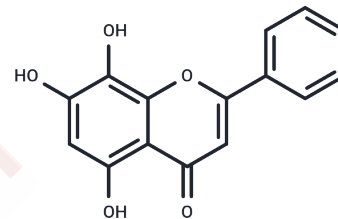
Chemical Properties

CAS No. : 4443-09-8

Formula: C₁₅H₁₀O₅

Molecular Weight: 270.24

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	Norwogonin (5,7,8-Trihydroxyflavone), isolated from <i>Scutellaria baicalensis</i> Georgi, possesses antiviral activity against Enterovirus 71 (IC ₅₀ : 31.83 µg/ml).
Targets(IC ₅₀)	Virus Protease
In vitro	Norwogonin (0.4, 2, 10, and 50 µg/mL; 48 hours) inhibits Enterovirus 71 (EV71) replication in Vero cells and prevents EV71-induced cytotoxicity. At 50 µg/mL for 48 hours, norwogonin significantly reduces viral VP2 protein expression and markedly decreases the expression of the EV71 NCR gene.

Solubility Information

Solubility	DMSO: 50 mg/mL (185.02 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: < 5 mg/mL (18.5 mM), Lower concentrations may be soluble, but exact solubility limit is unknown. 10% DMSO+40% PEG300+5% Tween 80+45% Saline: 5 mg/mL (18.5 mM), Solution. <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	3.7004 mL	18.5021 mL	37.0041 mL
5 mM	0.7401 mL	3.7004 mL	7.4008 mL
10 mM	0.370 mL	1.8502 mL	3.7004 mL
50 mM	0.074 mL	0.370 mL	0.7401 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

Choi HJ, et al. Inhibitory Effects of Norwogonin, Oroxylin A, and Mosloflavone on Enterovirus 71. *Biomol Ther* (Seoul). 2016 Sep 1;24(5):552-8.

Ni Z, Ma H, Li X, et al. Wogonin alleviates BaP-induced DNA damage and oxidative stress in human airway epithelial cells by dual inhibiting CYP1A1 activity and expression. *Environmental Toxicology*. 2023

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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