

Urolithin M5

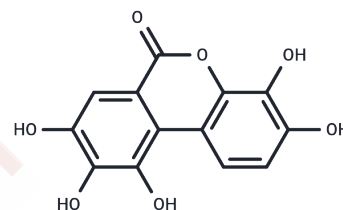
Chemical Properties

CAS No. : 91485-02-8

Formula: C₁₃H₈O₇

Molecular Weight: 276.2

Storage: Store at low temperature, Keep away from moisture,
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	Urolithin M5 (Decarboxyellagic acid) is a neuraminidase inhibitor isolated from olive leaves with antiviral and anticancer and antitumor activities. Urolithin M5 can be used to study influenza A virus infection and SARS-CoV-2 infection.
Targets(IC50)	Others, Influenza Virus
In vitro	The cytotoxicity of urolithin M5 was initially assessed using the MTT assay on MDCK cells. Urolithin M5 had a CC50 value of 227.4 μ M. [1] 25 μ M urolithin M5 inhibited all virus growth, urolithin M5 was the most effective compound, with an IC50 ranging from 3.74 to 16.51 μ M. [1]
In vivo	Specific-pathogen-free female BALB/c mice weighing 16 to 18 g. A total of 200 mg/kg/d urolithin M5 treatment improved the survival rate to 50%, which was significantly higher than the vehicle group. These results indicated that 200 mg/kg/d urolithin M5 had a protective effect on PR8-infected mice. [1]

Solubility Information

Solubility	H ₂ O: 15 mg/mL (54.31 mM), Sonication and heating are recommended. DMSO: 62 mg/mL (224.48 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	3.6206 mL	18.1028 mL	36.2056 mL
5 mM	0.7241 mL	3.6206 mL	7.2411 mL
10 mM	0.3621 mL	1.8103 mL	3.6206 mL
50 mM	0.0724 mL	0.3621 mL	0.7241 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

Xiao M, et al. Urolithin M5 from the Leaves of *Canarium album* (Lour.) DC. Inhibits Influenza Virus by Targeting Neuraminidase. *Molecules*. 2022 Sep 5;27(17):5724.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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