

2'-Hydroxygenistein

Chemical Properties

CAS No. : 1156-78-1

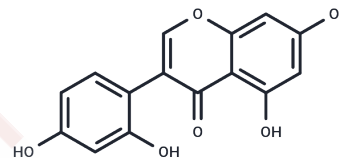
Formula: C₁₅H₁₀O₆

Molecular Weight: 286.24

Store at low temperature

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	2'-Hydroxygenistein is a naturally occurring flavonoid with a wide range of antioxidant, anti-inflammatory, anticancer, and anti-endometrial hyperplasia potentials. 2'-Hydroxygenistein is a inhibitor of a variety of enzymes, including indole-3-acetic acid oxidase, α -glucosidase, β -glucuronidase, and lysozyme.
Targets(IC50)	Antibacterial, Glucosidase
In vitro	Methods: MCF-7 cells were treated with 2'-Hydroxygenistein (0.5, 1, 2 μ g/mL, 24 hours) and cell viability was measured. Results: 2'-Hydroxygenistein exhibited antiproliferative effects in MCF-7 human breast cancer cells. [3]

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.4936 mL	17.4679 mL	34.9357 mL
5 mM	0.6987 mL	3.4936 mL	6.9871 mL
10 mM	0.3494 mL	1.7468 mL	3.4936 mL
50 mM	0.0699 mL	0.3494 mL	0.6987 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

Duker-Eshun G, et al. Antiplasmodial constituents of *Cajanus cajan*. *Phytother Res*. 2004 Feb;18(2):128-30.

Ko HH, et al. Anti-inflammatory flavonoids and pterocarpanoid from *Crotalaria pallida* and *C. assamica*. *Bioorg Med Chem Lett*. 2004 Feb 23;14(4):1011-4.

Choi JN, et al. 2'-hydroxylation of genistein enhanced antioxidant and antiproliferative activities in mcf-7 human breast cancer cells. *J Microbiol Biotechnol*. 2009 Nov;19(11):1348-54.

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