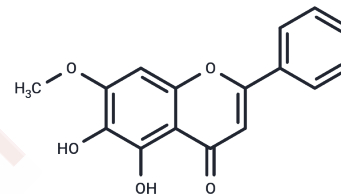


Negletein

Chemical Properties

CAS No. :	29550-13-8
Formula:	C ₁₆ H ₁₂ O ₅
Molecular Weight:	284.26
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	1. Negletein (7-O-Methylbaicalein) has anti-inflammatory and immunomodulatory activities via inhibition of TNF- α , iNOS and IL-1 β . 2. Negletein as a neuroprotectant enhances the action of nerve growth factor and induces neurite outgrowth in PC12 cells. 3. Negletein shows a comparable redox-active potential, and it (50 μ M, 4 h) can activate Nrf2. 4. Negletein shows significant antimicrobial activity. 5. Negletein has anti-hypoxia activity, it can significantly prolong the survival time of hypoxic mice. 6. Negletein has anti- Alzheimer's disease activity, it inhibits the iron-dependent formation of ROS and also blocks the iron-induced oligomerization of amyloid beta 42 in vitro. 7. Negletein (IC ₅₀ : 3.89 +/- 0.39 microM) exhibits potent inhibitory activity against nuclear factor of activated T cells (NFAT) transcription factor.
Targets(IC ₅₀)	NOS,NO Synthase,IL Receptor,Interleukin,TNF

Solubility Information

Solubility	Chloroform, Dichloromethane, Ethyl Acetate, Acetone, etc.: Soluble, DMSO: 50 mg/mL (175.9 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	3.5179 mL	17.5895 mL	35.1791 mL
5 mM	0.7036 mL	3.5179 mL	7.0358 mL
10 mM	0.3518 mL	1.759 mL	3.5179 mL
50 mM	0.0704 mL	0.3518 mL	0.7036 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

Phan, C., Sabaratnam, V., Bovicelli, P., Righi, G., & Saso, L. (2016). Negletein as a neuroprotectant enhances the action of nerve growth factor and induces neurite outgrowth in PC12 cells. *Biofactors*, 42(6), 591-599. doi: 10.1002/biof.1296

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