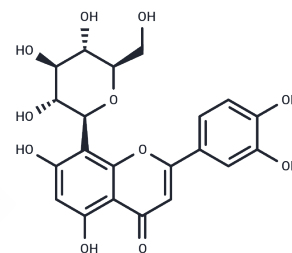


Orientin

Chemical Properties

CAS No. :	28608-75-5
Formula:	C ₂₁ H ₂₀ O ₁₁
Molecular Weight:	448.38
Storage:	Keep away from direct sunlight Powder: -20°C for 3 years In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i>



Biological Description

Description	1. Orientin (Luteolin-8-glucoside) may be regarded as a candidate therapeutic agent for treatment of vascular inflammatory diseases via inhibition of the HMGB1 signaling pathway. 2. Orientin protects vascular barrier integrity by inhibiting hyperpermeability, expression of CAMs, and adhesion and migration of leukocytes, thereby endorsing its usefulness as a therapy for vascular inflammatory diseases. 3. Orientin has neuroprotection effect by the intracellular mediation of caspase activity; may alleviate cognitive deficits and oxidative stress in AD mice; can exert antidepressant-like effects on CUMS mice, specifically by improving central oxidative stress, neurotransmission, and neuroplasticity.
Targets(IC50)	Others, Interleukin, TNF

Solubility Information

Solubility	DMSO: 83 mg/mL (185.11 mM), Sonication is recommended. Ethanol: Soluble, (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 3.3 mg/mL (7.36 mM), Sonication is recommended. <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	2.2303 mL	11.1513 mL	22.3025 mL
5 mM	0.4461 mL	2.2303 mL	4.4605 mL
10 mM	0.223 mL	1.1151 mL	2.2303 mL
50 mM	0.0446 mL	0.223 mL	0.4461 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

- LAW, B., LING, A., KOH, R., CHYE, S., & WONG, Y. (2013). Neuroprotective effects of orientin on hydrogen peroxide-induced apoptosis in SH-SY5Y cells. *Molecular Medicine Reports*, 9(3), 947-954. doi: 10.3892/mmr.2013.1878
- Jang S A, Hwang Y H, Yang H, et al. Ethanolic extract of *Pyrrrosia lingua* (Thunb.) Farw. ameliorates OVX-induced bone loss and RANKL-induced osteoclastogenesis. *Biomedicine & Pharmacotherapy*. 2022, 147: 112640.
- Jang S A, Hwang Y H, Kim T, et al. Anti-Osteoporotic and Anti-Adipogenic Effects of the Water Extract of *Drynaria roosii* Nakaike in Ovariectomized Mice Fed a High-Fat Diet. *Molecules*. 2019, 24(17): 3051
- Jang S A, Hwang Y H, Kim T, et al. Anti-Osteoporotic and Anti-Adipogenic Effects of the Water Extract of *Drynaria roosii* Nakaike in Ovariectomized Mice Fed a High-Fat Diet[J]. *Molecules*. 2019, 24(17): 3051.
- Jung M A, Song H K, Jo K, et al. *Gleditsia sinensis* Lam. aqueous extract attenuates nasal inflammation in allergic rhinitis by inhibiting MUC5AC production through suppression of the STAT3/STAT6 pathway. *Biomedicine & Pharmacotherapy*. 2023, 161: 114482.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel: 781-999-4286 E_mail: info@targetmol.com Address: 34 Washington Street, Wellesley Hills, MA 02481