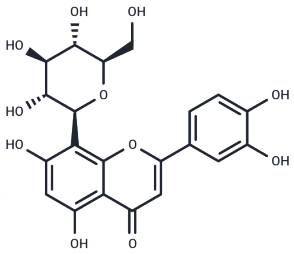
Data Sheet (Cat.No.T6S0721)

TargetMol

Orientin

Chemical Properties



CAS No. : 28608-75-5

Formula: C21H20O11

Molecular Weight: 448.38

Appearance: no data available

Storage: keep away from direct sunlight
Powder: -20°C for 3 years | In solvent: -80°C for 1 year

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

Solubility Information

Solubility	DMSO: 81 mg/mL (180.65 mM),Sonication is recommended. Ethanol: Soluble, (< 1 mg/ml refers to the product slightly soluble or insoluble)

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.

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

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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

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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.

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