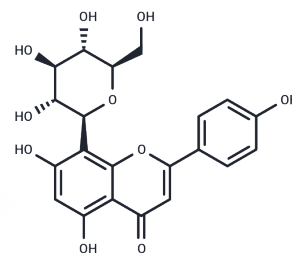


Vitexin

Chemical Properties

CAS No. :	3681-93-4
Formula:	C ₂₁ H ₂₀ O ₁₀
Molecular Weight:	432.38
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	1. Vitexin has antinociceptive and antispasmodic activities. 2. Vitexin exhibits a prominent first-pass effect. 3. Vitexin has antioxidant, antityrosinase, and α -glucosidase inhibitory activities. 4. Vitexin can either inhibit or induce activities of CYP2C11 and CYP3A1. 5. Vitexin induces the novel p53-dependent metastatic and apoptotic pathway. 6. Vitexin protects brain against cerebral I/R injury, and this effect may be regulated by mitogen-activated protein kinase (MAPK) and apoptosis signaling pathways.
Targets(IC50)	Antioxidant

Solubility Information

Solubility	DMSO: 43 mg/mL (99.45 mM), Sonication is recommended. Ethanol: Soluble, (< 1 mg/mL refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.3128 mL	11.5639 mL	23.1278 mL
5 mM	0.4626 mL	2.3128 mL	4.6256 mL
10 mM	0.2313 mL	1.1564 mL	2.3128 mL
50 mM	0.0463 mL	0.2313 mL	0.4626 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

Can ÖD1, Demir Özkay Ü, Üçel Uİ.. Anti-depressant-like effect of vitexin in BALB/c mice and evidence for the involvement of monoaminergic mechanisms[J]. European Journal of Pharmacology, 2013, 699(1-3):250-257.

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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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