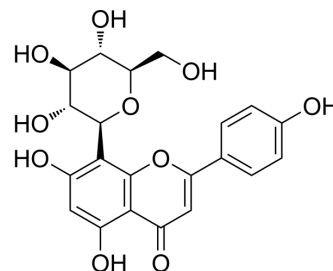


## Vitexin

Cat. No.:	HY-N0013		
CAS No.:	3681-93-4		
Molecular Formula:	C <sub>21</sub> H <sub>20</sub> O <sub>10</sub>		
Molecular Weight:	432.38		
Target:	Autophagy		
Pathway:	Autophagy		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



### SOLVENT & SOLUBILITY

In Vitro	DMSO : 62.5 mg/mL (144.55 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	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	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (4.81 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (4.81 mM); Clear solution				

### BIOLOGICAL ACTIVITY

Description	Vitexin is a c-glycosylated flavone, and is found in various medicinal plants species such as <i>Trigonella foenum-graecum</i> Linn. Vitexin has a wide range of pharmacological effects, including anti-oxidant, anti-cancer, anti-inflammatory, anti-hyperalgesic, and neuroprotective effects <sup>[1][2]</sup> .
In Vivo	Vitexin exerts neuroprotective effect against pentylentetrazole-induced seizures, scopolamine-induced memory impairment, and glutamate-induced neuronal excitotoxicity <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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## CUSTOMER VALIDATION

- Food Chem. 16 December 2021, 131872.
- Mol Med. 2023 Oct 27;29(1):147.
- Eur J Pharmacol. 2023 May 10;175787.
- Arch Physiol Biochem. 2022 Mar 7;1-10.

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## REFERENCES

- [1]. Jiang J, Dai J, Cui H. Vitexin reverses the autophagy dysfunction to attenuate MCAO-induced cerebral ischemic stroke via mTOR/Ulk1 pathway. Biomed Pharmacother. 2018;99:583-590.
- [2]. He M, et al. A review on the pharmacological effects of vitexin and isovitexin. Fitoterapia. 2016 Dec;115:74-85.
- [3]. Lima LKF, et al. A Brief Review on the Neuroprotective Mechanisms of Vitexin. Biomed Res Int. 2018 Dec 5;2018:4785089.
- 

**Caution: Product has not been fully validated for medical applications. For research use only.**

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