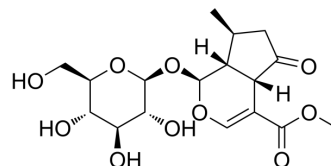


Verbenalin

Cat. No.:	HY-N2014		
CAS No.:	548-37-8		
Molecular Formula:	C ₁₇ H ₂₄ O ₁₀		
Molecular Weight:	388.37		
Target:	SARS-CoV		
Pathway:	Anti-infection		
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 : 100 mg/mL (257.49 mM; Need ultrasonic)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	2.5749 mL	12.8743 mL	25.7486 mL
5 mM	0.5150 mL	2.5749 mL	5.1497 mL
10 mM	0.2575 mL	1.2874 mL	2.5749 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

- Add each solvent one by one: 0.5% CMC-Na/saline water
Solubility: 50 mg/mL (128.74 mM); Clear solution; Need ultrasonic
- Add each solvent one by one: 50% PEG300 >> 50% saline
Solubility: 25 mg/mL (64.37 mM); Clear solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 2.5 mg/mL (6.44 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.5 mg/mL (6.44 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.5 mg/mL (6.44 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Verbenalin is Verbena glycoside, with anti-inflammatory, anti-fungal anti-virus activities. Verbenalin can be used for the research of prostatitis. Verbenalin can reduce cerebral ischemia-reperfusion injury^{[1][2]}.

CUSTOMER VALIDATION

- Mol Biol Rep. 2022 Nov 4.

See more customer validations on www.MedChemExpress.com

REFERENCES

- [1]. Miao M, et al. Effects of verbenalin on prostatitis mouse model. Saudi J Biol Sci. 2016 Jan;23(1):S148-57.
- [2]. Cao L, et al. The protective role of verbenalin in rat model of focal cerebral ischemia reperfusion. Saudi J Biol Sci. 2018 Sep;25(6):1170-1177.
- [3]. Hafiza Salaha Mahrosh, et al. An in silico approach to target RNA-dependent RNA polymerase of COVID-19 with naturally occurring phytochemicals. Environ Dev Sustain. 2021 Apr 3;1-14.
-

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA