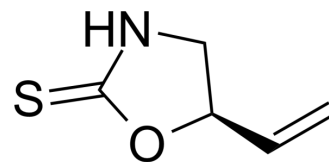


Epigoitrin

Cat. No.:	HY-N0224
CAS No.:	1072-93-1
Molecular Formula:	C ₅ H ₇ NOS
Molecular Weight:	129.18
Target:	Influenza Virus
Pathway:	Anti-infection
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 50 mg/mL (387.06 mM; Need ultrasonic)
Ethanol : 3.33 mg/mL (25.78 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
		1 mM	7.7411 mL	38.7057 mL	77.4114 mL
5 mM	1.5482 mL	7.7411 mL	15.4823 mL		
10 mM	0.7741 mL	3.8706 mL	7.7411 mL		

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

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 2.5 mg/mL (19.35 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: 2.5 mg/mL (19.35 mM); Suspended solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.5 mg/mL (19.35 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Epigoitrin is a natural alkaloid from *Isatis tinctoria*, with antiviral activities. Epigoitrin reduces susceptibility to influenza virus via mitochondrial antiviral signaling^{[1][2]}.

REFERENCES

- [1]. Luo Z, et al. Epigoitrin, an Alkaloid From *Isatis indigotica*, Reduces H1N1 Infection in Stress-Induced Susceptible Model in vivo and in vitro. *Front Pharmacol*. 2019 Feb 7;10:78.

[2]. Xiao P, et al. Antiviral activities against influenza virus (FM1) of bioactive fractions and representative compounds extracted from Banlangen (Radix Isatidis). J Tradit Chin Med. 2016 Jun;36(3):369-76.

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

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