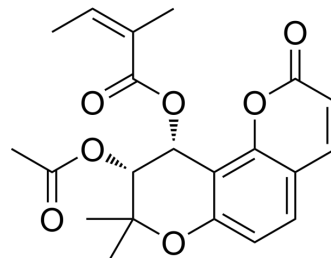


Pteryxin

Cat. No.:	HY-N2157	
CAS No.:	13161-75-6	
Molecular Formula:	C ₂₁ H ₂₂ O ₇	
Molecular Weight:	386.4	
Target:	Cholinesterase (ChE)	
Pathway:	Neuronal Signaling	
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 (258.80 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.5880 mL	12.9400 mL	25.8799 mL
	5 mM	0.5176 mL	2.5880 mL	5.1760 mL
	10 mM	0.2588 mL	1.2940 mL	2.5880 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 (6.47 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: 2.5 mg/mL (6.47 mM); Suspended solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.5 mg/mL (6.47 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Pteryxin, a coumarin in *Peucedanum japonicum* Thunb leaves, exerts antiobesity activity^[1]. Pteryxin is a potent butyrylcholinesterase (BChE) inhibitor, with an IC₅₀ of 12.96 μg/ml^[2].

IC₅₀ & Target

BChE

CUSTOMER VALIDATION

-
- Biomed Pharmacother. 2023 Jun 21;165:114898.

See more customer validations on www.MedChemExpress.com

REFERENCES

- [1]. Orhan IE, et al. Pteryxin - A promising butyrylcholinesterase-inhibiting coumarin derivative from *Mutellina purpurea*. *Food Chem Toxicol*. 2017 Nov;109(Pt 2):970-974.
- [2]. Nugara RN, et al. Pteryxin: a coumarin in *Peucedanum japonicum* Thunb leaves exerts antiobesity activity through modulation of adipogenic gene network. *Nutrition*. 2014 Oct;30(10):1177-84.
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Caution: Product has not been fully validated for medical applications. For research use only.

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