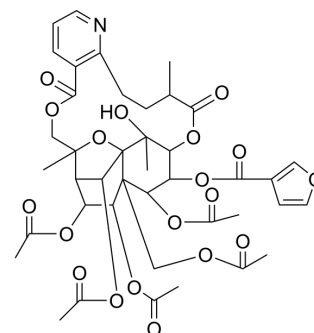


Wilforgine

Cat. No.:	HY-N1072
CAS No.:	37239-47-7
Molecular Formula:	C ₄₁ H ₄₇ NO ₁₉
Molecular Weight:	857.81
Target:	Calcium Channel
Pathway:	Membrane Transporter/Ion Channel; Neuronal Signaling
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (116.58 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	1.1658 mL	5.8288 mL	11.6576 mL
	5 mM	0.2332 mL	1.1658 mL	2.3315 mL
	10 mM	0.1166 mL	0.5829 mL	1.1658 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 (2.91 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.5 mg/mL (2.91 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Wilforgine is a bioactive sesquiterpene alkaloid in *Tripterygium wilfordii* Hook. F. Wilforgine can induce microstructural and ultrastructural changes in the muscles of *Mythimna separata* larvae, and the sites of action are proposed to be calcium receptors or channels in the muscular system^{[1][2]}.

REFERENCES

- [1]. Ouyang XK, et al. Simultaneous determination of four sesquiterpene alkaloids in *Tripterygium wilfordii* Hook. F. extracts by high-performance liquid chromatography. *Phytochem Anal.* 2007 Jul-Aug;18(4):320-5.
- [2]. Ma S, et al. Comparative studies on muscle microstructure and ultrastructure of *Mythimna separata* Walker treated with wilforgine and chlorantraniliprole. *Ecotoxicol Environ Saf.* 2018 Jan;147:1023-1034.

[3]. Gao X, et al. Wilforine, the Q-marker and PK-maker of Tripterygium glycosides tablet: Based on preparation quantitative analysis and PK-PD study. *Phytomedicine*. 2019 Feb 15;54:357-364.

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

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