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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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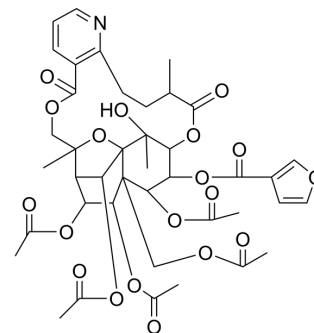
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Wilforgine

| | |
|---------------------------|--|
| 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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