

Product Data Sheet

Product Name: Wilforgine

Cat. No.: GC37934

Chemical Properties

Cas. No. 37239-47-7

SMILES O=C(C)OCC(C1OC(C)=O)(C(C(OC(C2=COC=C2)=O)C3OC(C4C)=O)OC(C)=O)C(OC(C)(COC(C(C=CC=N5)=C5CC4)=O)C6C1OC(C)=O)(C3(O)C)C6OC(C)=O

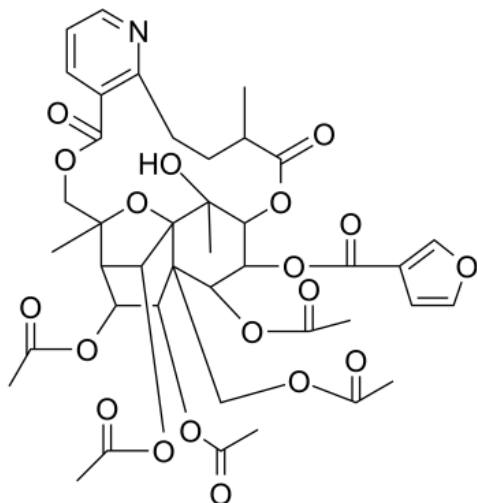
Formula $C_{41}H_{47}NO_{19}$ M.Wt 857.81

Solubility DMSO : 100 mg/mL (116.58 mM); ultrasonic and warming and heat to 60°C) Storage 4°C, protect from light

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure



Background

Wilforgine is a bioactive sesquiterpene alkaloid in *Tripterygium wilfordii* Hook. F. Wilforgine can

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

Product Data Sheet

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].

[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 wilforine 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.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA