Data Sheet (Cat.No.T6S1049)

TargetMol

Wilforine

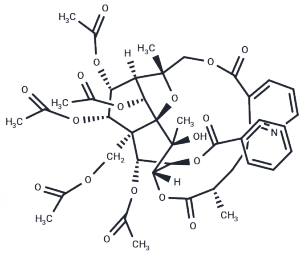
Chemical Properties

CAS No. : 11088-09-8

Formula: C43H49NO18

Molecular Weight: 867.85

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.



Biological Description

Description	Wilforine, a sesquiterpene pyridine alkaloid, is an important bioactive compound in T. wilfordii plants and is effective in treating idiopathic pulmonary fibrosis. Wilforine exhibits an anti-inflammatory effect, which might be mediated by the down-regulation of inflammatory factors TNF-α, IL-6, and NO. Additionally, it has insecticidal activity by inhibiting the Na+-K+-ATPase in the central nervous system.
Targets(IC50)	ATPase

Solubility Information

Solubility	DMSO: 50 mg/mL (57.61 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (2.3 mM),Sonication is recommended. *Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.1523 mL	5.7614 mL	11.5227 mL
5 mM	0.2305 mL	1.1523 mL	2.3045 mL
10 mM	0.1152 mL	0.5761 mL	1.1523 mL
50 mM	0.023 mL	0.1152 mL	0.2305 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Zhu C, et al. Establishment of Tripterygium wilfordii Hook. f. Hairy root culture and optimization of its culture conditions for the production of triptolide and wilforine. J Microbiol Biotechnol. 2014 Jun 28;24(6):823-34.
Miao GP, et al. Elicitation and in situ adsorption enhanced secondary metabolites production of Tripterygium wilfordii Hook. f. adventitious root fragment liquid cultures in shake flask and a modified bubble column bioreactor. Bioprocess Biosyst Eng. 2014

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481