

(+)-Armepavine

Chemical Properties

CAS No. : 14400-96-5

Formula: C₁₉H₂₃NO₃

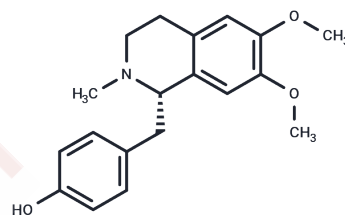
Molecular Weight: 313.39

Storage:

Keep away from direct sunlight, Keep away from moisture, Store at low temperature

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 | (+)-Armepavine is an active compound from <i>Nelumbo nucifera</i> that exhibits anti-inflammatory effects on human peripheral blood mononuclear cells, immunosuppressive effects on T lymphocytes, and protective activity in lupus nephritic mice, in part by inhibiting TNF- α -induced MAPK and NF- κ B signaling pathways. |
| Targets(IC50) | TNF |

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|------------|------------|
| 1 mM | 3.1909 mL | 15.9546 mL | 31.9091 mL |
| 5 mM | 0.6382 mL | 3.1909 mL | 6.3818 mL |
| 10 mM | 0.3191 mL | 1.5955 mL | 3.1909 mL |
| 50 mM | 0.0638 mL | 0.3191 mL | 0.6382 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

Geng P, et al. Determination of artemepavine in mouse blood by UPLC-MS/MS and its application to pharmacokinetic study. *Biomed Chromatogr.* 2018 May 3:e4273.

Morikawa T, et al. Quantitative Determination of Alkaloids in Lotus Flower (Flower Buds of *Nelumbo nucifera*) and Their Melanogenesis Inhibitory Activity. *Molecules.* 2016 Jul 19;21(7). pii: E930.

Kumarihamy M, et al. In vitro opioid receptor affinity and in vivo behavioral studies of *Nelumbo nucifera* flower. *J Ethnopharmacol.* 2015 Nov 4;174:57-65.

Ruiz-Olalla A, et al. Organocatalytic enantioselective Pictet-Spengler approach to biologically relevant 1-benzyl-1,2,3,4-tetrahydroisoquinoline alkaloids. *J Org Chem.* 2015 May 15;80(10):5125-32.

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