

Dichotomine B

Chemical Properties

CAS No. : 755036-41-0

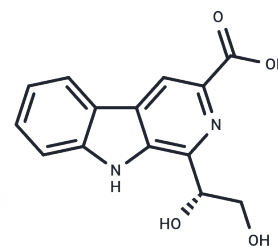
Formula: C₁₄H₁₂N₂O₄

Molecular Weight: 272.26

Storage: Keep away from direct sunlight, Keep away from moisture, Store at low temperature, Store under nitrogen

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	Dichotomine B is a natural alkaloid capable of modulating the TLR4/MyD88-mTOR signalling pathway, thereby attenuating neuroinflammatory responses in LPS/ATP-induced BV2 microglia.
Targets(IC50)	mTOR, MyD88, TLR

Solubility Information

Solubility	DMSO: 10 mg/mL (36.73 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 1 mg/mL (3.67 mM), Sonication is recommended. <i>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.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.673 mL	18.3648 mL	36.7296 mL
5 mM	0.7346 mL	3.673 mL	7.3459 mL
10 mM	0.3673 mL	1.8365 mL	3.673 mL
50 mM	0.0735 mL	0.3673 mL	0.7346 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

Zhou X, et al. Dichotomine B attenuates neuroinflammatory responses via regulating TLR4/MyD88-mTOR signaling pathway in BV2 cells. Research Square. March 29th, 2022

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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