Talatisamine

Catalog No.C14069 Batch:C1406903

Product Datasheet

Technical Data

Formula	$C_{24}H_{39}NO_5$					
Molecular Weight	421.57	**CAS No.**	20501-56-8			
Solubility (25°C)*	In vitro	DMSO	35 mg/mL (83.02 mM)			
	In vivo (Add solvents to the product individually and in order)	Oral Administration	Homogeneous suspension	CMC-NA	≥5mg/ml	Taking the 1 mL working solution as an example, add 5 mg of this product to 1 ml of CMC-Na solution, mix evenly to obtain a homogeneous suspension with a final concentration of 5 mg/ml.

* <1 mg/ml means slightly soluble or insoluble.
* Please note that Capsid Bio tests the solubility of all compounds in-house, and the actual solubility may differ slightly from published values. This is normal and is due to slight batch-to-batch variations.
* Room temperature shipping (Stability testing shows this product can be shipped at 2-8°C for storage purposes.)

Preparing Stock Solutions

Concentration \ Volume / Mass	1 mg	5 mg	10 mg
1 mM	2.3721 mL	11.8604 mL	23.7209 mL
5 mM	0.4744 mL	2.3721 mL	4.7442 mL
10 mM	0.2372 mL	1.1860 mL	2.3721 mL
50 mM	0.0474 mL	0.2372 mL	0.4744 mL

Biological Activity

Description	Talatisamine, a delphinine type alkaloid extracted from Aconitum talassicum, is a newly identified **K+ channel** blocker with hypotensive and antiarrhythmic activities.
Targets	IK channel [1] 146 μM
In vitro	Talatisamine is a specific blocker for I_K channel. External application of this compound reversibly inhibited the delayed rectifier K+ current (IK) with an IC50 value of 146.0±5.8 μM in a voltage-dependent manner, but exhibited very slight blocking effect on the voltage-gated Na+ and Ca2+ currents even at the high concentration of 1-3 mM in rat hippocampal neurons. It had no allosteric action on IK channel and was a pure blocker binding to the external pore entry of the channel[1].

References

https://pubmed.ncbi.nlm.nih.gov/18601983/

RETURN POLICY

Capsid Bio's Unconditional Return Policy ensures a smooth online shopping experience for our customers. If you are in any way unsatisfied with your purchase, you may return any item(s) within 7 days of receiving it. In the event of product quality issues, either protocol related or product related problems, you may return any item(s) within 365 days from the original purchase date. Please follow the instructions below when returning products.

SHIPPING & STORAGE

Capsid Bio products are transported at room temperature. If you receive the product at room temperature, please rest assured, the Capsid Bio Quality Inspection Department has conducted experiments to verify that the normal temperature placement of one month will not affect the biological activity of powder products. After collecting, please store the product according to the requirements described in the datasheet. Most Capsid Bio products are stable under the recommended conditions.

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