QX-314 chloride

Catalog No.C12996 Batch:C1299603

Product Datasheet

Technical Data

Formula	$C_{16}H_{27}ClN_2O$					
Molecular Weight	298.85	**CAS No.**	5369-03-9			
Solubility (25°C)*	In vitro	DMSO	60 mg/mL (200.76 mM)			
		Water	60 mg/mL (200.76 mM)			
		Ethanol	60 mg/mL (200.76 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	3.3462 mL	16.7308 mL	33.4616 mL
5 mM	0.6692 mL	3.3462 mL	6.6923 mL
10 mM	0.3346 mL	1.6731 mL	3.3462 mL
50 mM	0.0669 mL	0.3346 mL	0.6692 mL

Biological Activity

Description	QX-314 chloride directly activates and permeates the human isoforms of **TRPV1** and **TRPA1** to induce inhibition of **sodium channels**.
Targets	TRPV1 [1] / TRPA1 [1] / sodium channel [1]
In vitro	As a sodium channel blocker, QX-314 chloride exerts biphasic effects on transient receptor potential vanilloid subtype 1 channels (TRPV1) in a concentration-dependent manner. This compound (10 mM) inhibits calcium currents in hippocampal CA1 pyramidal neurons intracellular, and the low-threshold (T-type) Ca^{2+} currents are on average <45% of control amplitude.[1] [2]

References

https://pubmed.ncbi.nlm.nih.gov/26859646/

https://pubmed.ncbi.nlm.nih.gov/8890325/

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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