

ARN23746

Chemical Properties

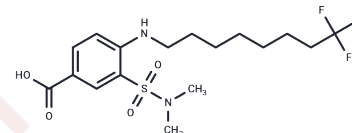
CAS No. : 2497525-96-7

Formula: C₁₇H₂₅F₃N₂O₄S

Molecular Weight: 410.45

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	ARN23746 (IAMA-6) is a selective NKCC1 inhibitor with neuroprotective activity, used in the research of brain diseases including drug-resistant epilepsy (such as temporal lobe epilepsy TLE, Dravet syndrome DrS), autism spectrum disorder ASD, and Down syndrome DoS.
Targets(IC50)	Na-K-Cl cotransporter
In vivo	Methods: ARN23746 (IAMA-6) was used to intervene in mice models of autism spectrum disorder and drug-induced aphasia. The changes in behavior and cognitive function were observed, and the diuretic effect and toxicity were evaluated. Results: ARN23746 (IAMA-6) could improve the abnormalities of social interaction and repetitive behaviors in mice with autism spectrum disorder, reverse the cognitive deficits in mice with drug-induced aphasia, and no obvious diuretic effect or toxicity was observed [1].

Solubility Information

Solubility	DMSO: 80 mg/mL (194.91 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4364 mL	12.1818 mL	24.3635 mL
5 mM	0.4873 mL	2.4364 mL	4.8727 mL
10 mM	0.2436 mL	1.2182 mL	2.4364 mL
50 mM	0.0487 mL	0.2436 mL	0.4873 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

Annalisa Savardi, et al. Selective NKCC1 Inhibitors for the Treatment of Neurodevelopmental and Neurological Disorders with Defective NKCC1/KCC2 expression-ratio (P2-12.003). April 25, 2023 issue 100 (17_supplement_2).

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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