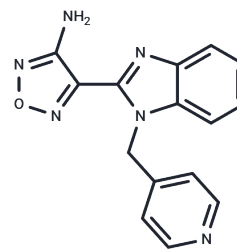


C 101248

Chemical Properties

CAS No. : 361368-24-3
 Formula: C₁₅H₁₂N₆O
 Molecular Weight: 292.3
 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	C 101248 (KCNK13-IN-1) is a selective and potent tandem pore halogen inhibitor of K ⁺ channel 1 (THIK-1) inhibitor and human and mouse KCNK13 inhibitor. C 101248 inhibits IL-1 β release in a concentration-dependent manner and can be used for the study of inflammation induced by neurodegenerative disorders.
Targets(IC50)	Potassium Channel
In vitro	C 101248 showed a concentration-dependent inhibition of both mouse and human THIK-1 (IC50: ~50 nM) and was inactive against K2P family members TREK-1 and TWIK-2, and Kv2.1. Whole-cell patch-clamp recordings of microglia from mouse hippocampal slices showed that C 101248 potently blocked both tonic and ATP-evoked THIK-1 K currents. [1]

Solubility Information

Solubility	DMSO: 8 mg/mL (27.37 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	3.4211 mL	17.1057 mL	34.2114 mL
5 mM	0.6842 mL	3.4211 mL	6.8423 mL
10 mM	0.3421 mL	1.7106 mL	3.4211 mL
50 mM	0.0684 mL	0.3421 mL	0.6842 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

Ossola B, et al. Characterisation of C101248: A novel selective THIK-1 channel inhibitor for the modulation of microglial NLRP3-inflammasome. Neuropharmacology. 2023 Feb 15;224:109330.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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