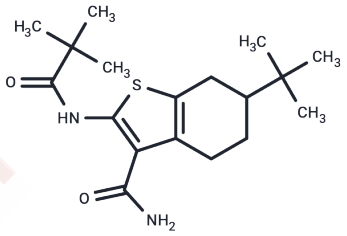
Data Sheet (Cat.No.T61051)

TargetMol

ANO1-IN-1

Chemical Properties



CAS No. : 407587-01-3

Formula: C18H28N2O2S

Molecular Weight: 336.49

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	ANO1-IN-1, a selective ANO1 channel blocker, inhibited ANO1 and ANO2 with IC50 values of 2.56 μM and 15.43 μM, respectively.ANO1-IN-1 had a significant inhibitory effect on the proliferation of glioma cells.
Targets(IC50)	Chloride channel
In vitro	ANO1-IN-1 (Compound 9c) (10 μM) significantly inhibits the migration and invasion of U251 cells and, in combination with TMZ, synergistically suppresses GBM cell proliferation.[1]

Solubility Information

Solubility	DMSO: 150 mg/mL (445.78 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: 5 mg/mL (14.86 mM),Sonication is recommended. *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.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.9719 mL	14.8593 mL	29.7186 mL
5 mM	0.5944 mL	2.9719 mL	5.9437 mL
10 mM	0.2972 mL	1.4859 mL	2.9719 mL
50 mM	0.0594 mL	0.2972 mL	0.5944 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

Choi SH, et al. Anti-glioma effects of 2-aminothiophene-3-carboxamide derivatives, ANO1 channel blockers. Eur J Med Chem. 2020;208:112688.