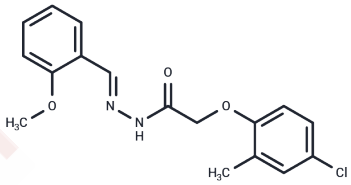
Data Sheet (Cat.No.T26630)

TargetMol

Ani9

Chemical Properties



CAS No. : 356102-14-2

Formula: C17H17ClN2O3

Molecular Weight: 332.78

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	Ani9 is a high selective blocker of Anoctamin1 (ANO1)/transmembrane protein 16A (TMEM16A) with an IC50 of 77 nM and can be used in studies about ANO1 and the treatment of ancer, hypertension, pain, diarrhea and asthma.
Targets(IC50)	Chloride channel

Solubility Information

Solubility	DMSO: 16.6 mg/mL (49.88 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.005 mL	15.0249 mL	30.0499 mL
5 mM	0.601 mL	3.005 mL	6.010 mL
10 mM	0.3005 mL	1.5025 mL	3.005 mL
50 mM	0.0601 mL	0.3005 mL	0.601 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

Hahn A, et al. Cellular distribution and function of ion channels involved in transport processes in rat tracheal epithelium. Physiol Rep. 2017 Jun;5(12). pii: e13290.

Truong EC, et al. Substituted 2-Acylaminocycloalkylthiophene-3-carboxylic Acid Arylamides as Inhibitors of the Calcium-Activated Chloride Channel Transmembrane Protein 16A (TMEM16A). J Med Chem. 2017 Jun 8;60(11): 4626-4635.

Seo Y, et al. Ani9, A Novel Potent Small-Molecule ANO1 Inhibitor with Negligible Effect on ANO2. PLoS One. 2016 May 24;11(5):e0155771.

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