

ML402

Chemical Properties

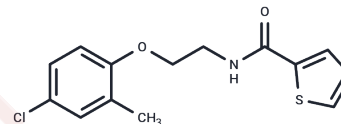
CAS No. : 298684-44-3

Formula: C₁₄H₁₄ClNO₂S

Molecular Weight: 295.78

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	ML402 (ZINC3671497) is an activator of TREK-1 and TREK-2 with EC ₅₀ s of 13.7 μM and 5.9 μM.
Targets(IC ₅₀)	Potassium Channel
In vitro	ML402 targets TRAAK with EC ₅₀ of 13.6 μM[1].

Solubility Information

Solubility	DMSO: 95 mg/mL (321.18 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 3.3 mg/mL (11.16 mM),Sonication is recommended. <i>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.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.3809 mL	16.9045 mL	33.8089 mL
5 mM	0.6762 mL	3.3809 mL	6.7618 mL
10 mM	0.3381 mL	1.6904 mL	3.3809 mL
50 mM	0.0676 mL	0.3381 mL	0.6762 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

Lolicato M, et al. K2P2.1 (TREK-1)-activator complexes reveal a cryptic selectivity filter binding site. Nature. 2017 Jul 20;547(7663):364-368.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481