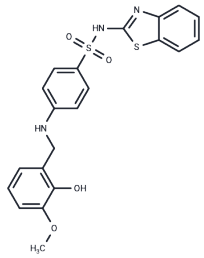
Data Sheet (Cat.No.T4347)

TargetMol

ML355

Chemical Properties



CAS No. : 1532593-30-8

Formula: C21H19N3O4S2

Molecular Weight: 441.52

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	ML355, a specific, effective 12-Lipoxygenase(12-LOX) inhibitors(IC50=0.34 μM), possess favorable ADME properties.
Targets(IC50)	Lipoxygenase

Solubility Information

Solubility	DMSO: 125 mg/mL (283.11 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: 2 mg/mL (4.53 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	2.2649 mL	11.3245 mL	22.649 mL
5 mM	0.453 mL	2.2649 mL	4.5298 mL
10 mM	0.2265 mL	1.1325 mL	2.2649 mL
50 mM	0.0453 mL	0.2265 mL	0.453 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

Luci DK, et al. Synthesis and structure-activity relationship studies of 4-((2-hydroxy-3-methoxybenzyl)amino) benzenesulfonamide derivatives as potent and selective inhibitors of 12-lipoxygenase. J Med Chem. 2014 Jan 23; 57(2):495-506.

Gao S, Zhou L, Lu J, et al. Cepharanthine Attenuates Early Brain Injury after Subarachnoid Hemorrhage in Mice via Inhibiting 15-Lipoxygenase-1-Mediated Microglia and Endothelial Cell Ferroptosis. Oxidative Medicine and Cellular Longevity. 2022, 2022.

Kou Y, Zhang S, Chen J, et al.A mouse protozoan boosts antigen-specific mucosal IgA responses in a specific lipid metabolism-and signaling-dependent manner.Nature Communications.2024, 15(1): 7914.

Zhang XJ, et al. An ALOX12-12-HETE-GPR31 signaling axis is a key mediator of hepatic ischemia-reperfusion injury. Nat Med. 2018 Jan;24(1):73-83.

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