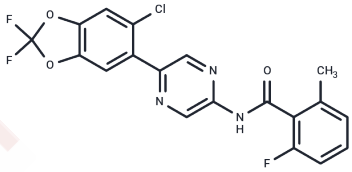
Data Sheet (Cat.No.TQ0033)

TargetMol

Zegocractin

Chemical Properties



CAS No. : 1713240-67-5

Formula: C19H11ClF3N3O3

Molecular Weight: 421.76

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	Zegocractin (CM-4620) is an inhibitor of calcium-release activated calcium (CRAC) channels.
Targets(IC50)	Calcium Channel
In vitro	CM-4620 (compound 1) is more potent on Orai1 than Orai2-type CRAC channels. In human PBMCs, CM-4620 potently inhibits release of multiple cytokines which play important roles in T cells (IC50s, IFN γ: 138 nM, IL-6: 135 nM, IL-4: 879 nM, IL-1β: 240 nM, IL-10: 303 nM, IL-2: 59 nM, TNFα: 225 nM, IL-17 120 nM) [1].
In vivo	Mouse PACs are treated with CRAC inhibitors GSK-7975A or CM-4620 and monitored for their rate of Calcium uptake. Both CRAC inhibitors reduce the rate of store-operated Calcium entry into the ER to 50% of control levels upon treatment with 700 nM of inhibitor. CM-4620 blocks 100% of the reuptake at 10 mM.

Solubility Information

Solubility	H2O: Insoluble, DMSO: 140 mg/mL (331.94 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 3.3 mg/mL (7.82 mM),Sonication is recommended. 10% DMSO+90% Saline: < 10 mg/mL (23.71 mM),Lower concentrations may be soluble, but exact solubility limit is unknown. 10% DMSO+40% PEG300+5% Tween 80+45% Saline: < 10 mg/mL (23.71 mM),Lower concentrations may be soluble, but exact solubility limit is unknown. 10% DMSO+90% Corn oil: 10 mg/mL (23.71 mM),Solution. 10% DMSO+90% (20% SBE-β-CD in Saline): < 10 mg/mL (23.71 mM),Lower concentrations may be soluble, but exact solubility limit is unknown. *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	2.371 mL	11.8551 mL	23.7102 mL
5 mM	0.4742 mL	2.371 mL	4.742 mL
10 mM	0.2371 mL	1.1855 mL	2.371 mL
50 mM	0.0474 mL	0.2371 mL	0.4742 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

ARYL SULFONOHYDRAZIDES. WO2016/138472Al.