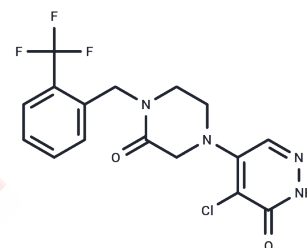


GFB-8438

Chemical Properties

CAS No. : 2304549-73-1
 Formula: C₁₆H₁₄ClF₃N₄O₂
 Molecular Weight: 386.76
 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	GFB-8438 is a potent and subtype selective inhibitor of TRPC5 (IC ₅₀ s of 0.18 and 0.29 μM of hTRPC5 and hTRPC4, respectively).
Targets(IC ₅₀)	TRP/TRPV Channel
In vitro	GFB-8438 is a novel TRPC5 inhibitor. GFB-8438 protects mouse podocytes from injury induced by protamine sulfate (PS) in vitro.
In vivo	GFB-8438 is also efficacious in a hypertensive deoxycorticosterone acetate (DOCA)-salt rat model of FSGS, significantly reducing both total protein and albumin concentrations in urine
Animal Research	Sprague Dawley rats (DOCA-salt rat model of FSGS); 30 mg/kg; Administration: s.c.; daily for 3 weeks

Solubility Information

Solubility	DMSO: 27.5 mg/mL (71.1 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 (5.17 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	2.5856 mL	12.9279 mL	25.8558 mL
5 mM	0.5171 mL	2.5856 mL	5.1712 mL
10 mM	0.2586 mL	1.2928 mL	2.5856 mL
50 mM	0.0517 mL	0.2586 mL	0.5171 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

Yu M, et al. Discovery of a Potent and Selective TRPC5 Inhibitor, Efficacious in a Focal Segmental Glomerulosclerosis Model. ACS Med Chem Lett. 2019 Oct 22;10(11):1579-1585.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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