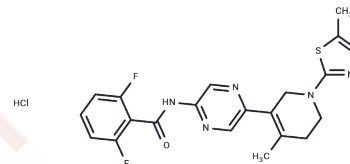


RO2959 Hydrochloride

Chemical Properties

CAS No. :	1219927-22-6
Formula:	C ₂₁ H ₂₀ ClF ₂ N ₅ O ₂
Molecular Weight:	463.93
Storage:	Store at low temperature Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	RO2959 Hydrochloride (RO2959 HCl) is a potent and selective inhibitor of CRAC channel (IC ₅₀ : 402 nM). It is also a potent inhibitor of human IL-2.
Targets(IC ₅₀)	Calcium Channel,IL Receptor,Interleukin
In vitro	RO2959 is a potent SOCE inhibitor that blocked an IP ₃ -dependent current in CRAC-expressing RBL-2H3 cells and CHO cells stably expressing human Orai1 and Stim1, as well as SOCE in human primary CD4 ⁺ T cells triggered by either TCR stimulation or thapsigargin treatment. RO2959 completely inhibited cytokine production as well as T cell proliferation mediated by TCR stimulation or MLR (mixed lymphocyte reaction).

Solubility Information

Solubility	DMSO: 10 mg/mL (21.55 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.1555 mL	10.7775 mL	21.555 mL
5 mM	0.4311 mL	2.1555 mL	4.311 mL
10 mM	0.2155 mL	1.0777 mL	2.1555 mL
50 mM	0.0431 mL	0.2155 mL	0.4311 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

Chen G, Panicker S, Lau KY, Apparsundaram S, Patel VA, Chen SL, Soto R, Jung JK, Ravindran P, Okuhara D, Bohnert G, Che Q, Rao PE, Allard JD, Badi L, Bitter HM, Nunn PA, Narula SK, DeMartino JA. Characterization of a novel CRAC inhibitor that potently blocks human T cell activation and effector functions. Mol Immunol. 2013 Jul;54(3-4):355-67.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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