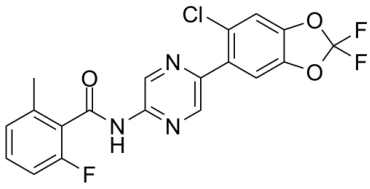
Data Sheet

Product Name:	CM-4620
Cat. No.:	CS-0022201
CAS No.:	1713240-67-5
Molecular Formula:	C19H11ClF3N3O3
Molecular Weight:	421.76
Target:	CRAC Channel
Pathway:	Membrane Transporter/Ion Channel
Solubility:	DMSO : ≥ 100 mg/mL (237.10 mM); H2O : < 0.1 mg/mL (insoluble)



BIOLOGICAL ACTIVITY:

CM-4620 is a calcium-release activated calcium-channel **(CRAC channel)** inhibitor, with **IC_{50}s** of 119 nM, 895 nM for Orai1/STIM1 and Orai2/STIM1 channels, respectively. IC50 & Target: IC50: 119 nM (Orai 1/STIM1), 895 nM (Orai 1/STIM1)[1]. **In Vitro:** It is determined that CM-4620 (compound 1) inhibits Orai 1/STIM1 channels with an IC_{50} of 119 nM, and Orai2/STIM1 channels with an IC_{50} of 895 nM. It 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 (IC_{50}s, IFN γ: 138 nM, IL-4: 879 nM, IL-6: 135 nM, IL-1β: 240 nM, IL-10: 303 nM, TNFα: 225 nM, IL-2: 59 nM, IL-17 120 nM)[1]. **In Vivo:** Mouse PACs are treated with CRAC inhibitors CM-4620 or GSK-7975A 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 controllevels upon treatment with 700 nM of inhibitor. CM-4620 blocks 100% of reuptake at 10 mM[1].

References:

[1]. ARYL SULFONOHYDRAZIDES. WO2016/138472Al.

CAIndexNames:

Benzamide, N-[5-(6-chloro-2,2-difluoro-1,3-benzodioxol-5-yl)-2-pyrazinyl]-2-fluoro-6-methyl-

SMILES:

O=C(NC1=NC=C(C2=C(Cl)C=C(OC(F)(F)O3)C3=C2)N=C1)C4=C(C)C=CC=C4F

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