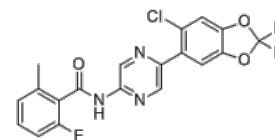


Product Name : Zegocractin
Cat. No. : PC-38432
CAS No. : 1713240-67-5
Molecular Formula : C₁₉H₁₁ClF₃N₃O₃
Molecular Weight : 421.760
Target : Calcium Channel
Solubility : 10 mM in DMSO



Biological Activity

Zegocractin (CM4620) is a selective small molecule CRAC (**Orai1**) **channel** inhibitor, inhibits Orai1/STIM1-mediated Ca²⁺ currents and Orai2/STIM1-mediated currents with IC₅₀ of 120 nM and 900 nM, respectively. CM4620 efficiently blocks store-operated Ca²⁺ entry (SOCE) in pancreatic acinar cells. CM4620 prevents cell death and trypsinogen activation in primary rodent and human acini. CM4620 administration (20 mg/kg) significantly reduces pancreatitis responses in mouse cerulein acute pancreatitis. CM4620 inhibits CCK-induced NFAT and NF-κB activities in pancreatic acinar cells, inhibits cytokine production in PBMCs (IC₅₀, 47 to 952 nM) and reduces oxidative burst in neutrophils.

References

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Gerasimenko JV, et al. *Function (Oxf)*. 2022 Jan 31;3(2):zqac002.
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Caution: Product has not been fully validated for medical applications. Lab Use Only!

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