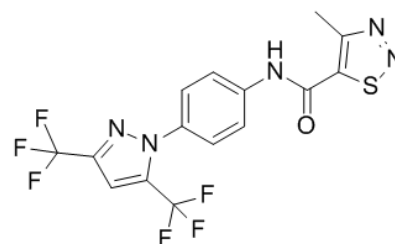


Product Name : YM-58483
Cat. No. : PC-42271
CAS No. : 223499-30-7
Molecular Formula : C₁₅H₉F₆N₅OS
Molecular Weight : 421.3203
Target : CRAC Channel
Solubility : DMSO: ≥ 32 mg/mL



Biological Activity

YM-58483 is a potent store-operated Ca²⁺ entry blocker and **CRAC channel** inhibitor with IC₅₀ of 100 nM. YM-58483 inhibits Ca(2+) influx through SOC channels without affecting the TCR signal transduction cascade in Jurkat cells, inhibits thapsigargin-induced sustained Ca(2+) influx (IC₅₀=100 nM), and 30-fold less potent against Cav channels. YM-58483 potently inhibits IL-2 production and NF-AT-driven promoter activity in Jurkat cells. YM-58483 also inhibits IL-4 and IL-5 production Th2 T cells, prevents antigen-induced inflammatory responses in animal models; orally active.

References

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Takezawa R, et al. *Mol Pharmacol.* 2006 Apr;69(4):1413-20.
Zitt C, et al. *J Biol Chem.* 2004 Mar 26;279(13):12427-37.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

E-mail: tech@probechem.com