

Product Name : YM-58483

Synonyms : YM58483;YM 58483;BPT2

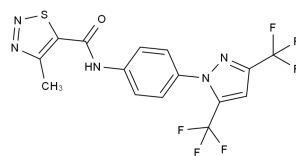
Cat No. : M13583

CAS Number : 223499-30-7

Molecular Formula : C₁₅H₉F₆N₅O₂

Formula Weight : 421.32

Chemical Name : 1,2,3-Thiadiazole-5-carboxamide, N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-4-methyl-



Description : A store-operated Ca²⁺ entry blocker and CRAC channel inhibitor with IC₅₀ of 100 nM; 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; potently inhibits IL-2 production and NF-AT-driven promoter activity in Jurkat cells; also inhibits IL-4 and IL-5 production Th2 T cells, prevents antigen-induced inflammatory responses in animal models; orally active.

Pathway : Membrane Transporter/Ion Channel

Target : CRAC Channel

Receptor : SOCE

Solubility : DMSO: ≥ 32 mg/mL

SMILES : O=C(C1=C(C)N=NS1)NC2=CC=C(N3N=C(C(F)(F)F)C=C3C(F)(F)F)C=C2

Storage : (-20°C)

Stability : ≥ 2 years

Reference :

1. Ishikawa J, et al. J Immunol. 2003 May 1;170(9):4441-9. 2. Yoshino T, et al. Eur J Pharmacol. 2007 Apr 10;560(2-3):225-33. 3. Takezawa R, et al. Mol Pharmacol. 2006 Apr;69(4):1413-20. 4. Zitt C, et al. J Biol Chem. 2004 Mar 26;279(13):12427-37.