

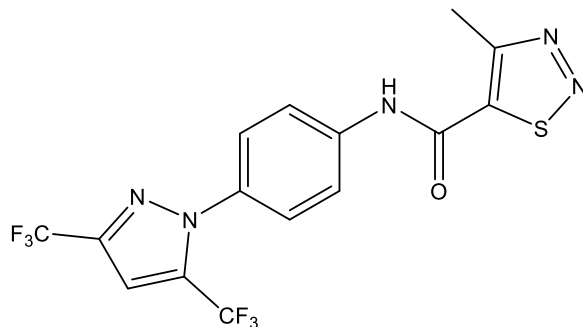
Catalog # 10-2935

YM-58483

CAS# 223499-30-7

N-[4-[3,5-*Bis*(trifluoromethyl)-1*H*-pyrazol-1-yl]phenyl]-4-methyl-1,2,3-thiadiazole-5-carboxamide; BTP2

Lot # S106241



YM-58483 is a CRAC (calcium release-activated calcium) channel blocker¹, a prototypic store-operated calcium channel². Inhibits antigen-induced histamine release via modulation of mast cell responses.³ Displays potent analgesic actions in various pain models in mice and is orally active.⁴ Inhibits T cell-mediated immune responses *in vivo*.⁵

- 1) Zitt *et al.* (2004), *Potent inhibition of Ca²⁺ release-activated Ca²⁺ channels and T-lymphocyte activation by the pyrazole derivative BTP2*; J. Biol. Chem. **279** 12427
- 2) Prakriya *et al.* (2015), *Store-Operated Calcium Channels*; Physiol. Rev. **95** 1383
- 3) Law *et al.* (2011), *Structural requirements for the inhibition of calcium mobilization and mast cell activation by the pyrazole derivative BTP2*; Int. J. Biochem. Cell Biol. **43** 1228
- 4) Gao *et al.* (2013), *Potent analgesic effects of a store-operated calcium channel inhibitor*; Pain **154** 2034
- 5) Ohga *et al.* (2008), *Characterization of YM-58483/BTP2, a novel store-operated Ca²⁺ entry blocker, on T cell-mediated immune response in vivo*; Int. Immunopharmacol. **8** 1787

PHYSICAL DATA

Molecular Weight:	421.32
Molecular Formula:	C ₁₅ H ₉ F ₆ N ₅ OS
Purity:	>98% by TLC
	NMR: (Conforms)
Solubility:	DMSO (40 mg/ml)
Physical Description:	Off-white solid
Storage and Stability:	Store as supplied at -20°C for up to 2 years from the date of purchase. Solutions in DMSO may be stored at -20°C for up to 3 months.

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