



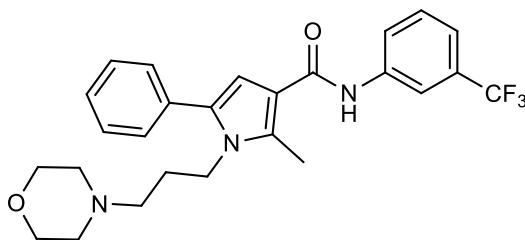
Catalog # 10-1480

HC-067047

883031-03-6

2-Methyl-1-[3-(4-morpholinyl)propyl]-5-phenyl-N-[3-trifluoromethyl)phenyl]-1H-pyrrole-3-carboxamide

Lot # S101183



Potent reversible and selective TRPV4 antagonist. Active at mouse, human and rat TRPV4, IC_{50} = 17, 48 and 133 nM respectively. Also inhibits the endogenous TRPV4-mediated response to 4 α -PDH (IC_{50} = 22 nM). Selective for TRPV4 over TRPV1, TRPV2, TRPV3 and TRPM8 channels¹. Increases functional bladder capacity and reduces micturition frequency in mice and rats with cystitis¹. Inhibits brain edema in middle cerebral artery occlusion mice². Induces an increase in core body temperature accompanied by increased oxygen consumption in Wistar rats³. Active *in vivo*.

- 1) Everaerts *et al.* (2010), *Inhibition of the cation channel TRPV4 improves bladder function in mice and rats with cyclophosphamide-induced cystitis*; Proc. Natl. Acad. Sci. USA, **107** 19084
- 2) Jie *et al.* (2015), *Blockage of transient receptor potential vanilloid 4 inhibits brain edema in middle cerebral artery occlusion mice*; Front. Cell. Neurosci., **9** 141
- 3) Vizin *et al.* (2015), *TRPV4 activates autonomic and behavioural warmth-defence responses in Wistar rats*; Acta Physiol. (Oxf.), **214** 275

PHYSICAL DATA

Molecular Weight:	471.51
Molecular Formula:	C ₂₆ H ₂₈ F ₃ N ₃ O ₂
Purity:	98% by TLC
	NMR: (Conforms)
Solubility:	DMSO (up to 50 mg/ml), or Ethanol (up to 10 mg/ml)
Physical Description:	White solid
Storage and Stability:	Store as supplied desiccated at -20°C for up to 2 years from the date of purchase. Solutions in DMSO or ethanol may be stored at -20°C for up to 3 months.

Materials provided by Focus Biomolecules are for laboratory research use only and are not intended for human or veterinary applications.