

Catalog	Unit
TBI1480-5MG	5 mg
TBI1480-25MG	25 mg

### Product Details

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

**Molecular Formula:** C<sub>26</sub>H<sub>28</sub>F<sub>3</sub>N<sub>3</sub>O<sub>2</sub>

**Formula Weight:** 471.51

**CAS Number:** 883031-03-6

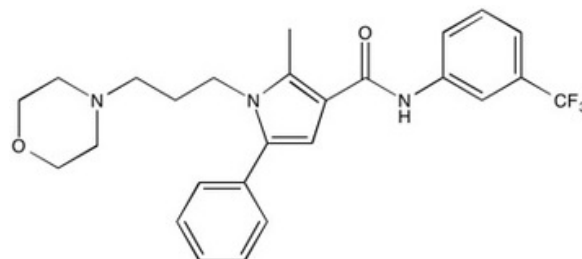
**Purity:** >98%

**Formulation:** powder

**Solubility:** Soluble in DMSO (up to 50 mg/ml) or in Ethanol (up to 10 mg/ml).

**Storage:** -20°C

**Stability:** ≥ 2 years.



### Applications

TRPV4 blocker

### Functions

Potent reversible and selective TRPV4 antagonist. Active at mouse, human and rat TRPV4, IC<sub>50</sub> = 17, 48 and 133 nM respectively. Also inhibits the endogenous TRPV4-mediated response to 4 $\alpha$ -PDH (IC<sub>50</sub> = 22 nM). Selective for TRPV4 over TRPV1, TRPV2, TRPV3 and TRPM8 channels. Increases functional bladder capacity and reduces micturition frequency in mice and rats with cystitis. Inhibits brain edema in middle cerebral artery occlusion mice. Induces an increase in core body temperature accompanied by increased oxygen consumption in Wistar rats. Active in vivo.

### Application Procedures

First dissolved in DMSO (up to 50 mg/ml) or in Ethanol (up to 10 mg/ml), then diluted to aqueous buffer. Solutions in DMSO or ethanol may be stored at -20° for up to 3 months.

**For research use only.**