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DATASHEET

HC 067047 hydrochloride

Product overview

Name	HC 067047 hydrochloride
Cat No	HB6100
Purity	>98%
Description	Potent, selective TRPV4 channel antagonist. Hydrochloride salt

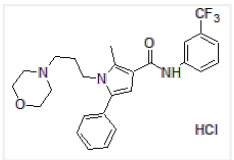
Biological Data

Biological description	Potent and selective TRPV4 channel antagonist (IC_{50} values are 17, 48 and 133 nM for mouse, human and rat TRPV4 channels respectively). Increases ATP release from porcine lenses (IC50 = 2.5 µM). Also reduces 4α-phorbol 12,13-didecanoate (4α-PDD)-induced Ca2+ responses (IC50 = 22 nM). Exhibits reduced activity for TRPM8 and hERG channels. Hydrochloride salt.

Solubility & Handling

Storage instructions	Room temperature
Solubility overview	Soluble in DMSO (100 mM)
Important	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

Chemical Data

Chemical name	2-Methyl-1-[3-(4-morpholinyl)propyl]-5-phenyl-N-[3-(trifluoromethyl)phenyl]-1H-pyrrole-3-carboxamide hydrochloride
Molecular Weight	507.2
Chemical structure	
Molecular Formula	$C_{26}H_{28}F_3N_3O_2$.HCl
PubChem identifier	89894200
SMILES	CC1=C(C=C(N1CCCN2CCOCC2)C3=CC=CC=C3)C(=O)NC4=CC=CC(=C4)C(F)(F)F.Cl
Source	Synthetic
InChi	InChI=1S/C26H28F3N3O2.ClH/c1-19-23(25(33)30-22-10-5-9-21(17-22)26(27,28)29)18-24(20-7-3-2-4-8-20)32(19)12-6-11-31-13-15-34-16-14-31;/h2-5,7-10,17-18H,6,11-16H2,1H3,(H,30,33);1H
InChiKey	OYEPECVNCLAKTO-UHFFFAOYSA-N

References

Inhibition of the cation channel TRPV4 improves bladder function in mice and rats with cyclophosphamide-induced cystitis.

Everaerts W *et al* (2010) Proc Natl Acad Sci U S A 107(44)

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TRPV4 in porcine lens epithelium regulates hemichannel-mediated ATP release and Na-K-ATPase activity.

Shahidullah M *et al* (2012) Am J Physiol Cell Physiol 302(12)
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Implication of the ryanodine receptor in TRPV4-induced calcium response in pulmonary arterial smooth muscle cells from normoxic and chronically hypoxic rats.

Dahan D *et al* (2012) Am J Physiol Lung Cell Mol Physiol 303(9)
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