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DATASHEET

HC 067047

Product overview

Name	HC 067047
Cat No	HB1191
Biological action	Antagonist
Purity	>98%
Description	Potent, selective TRPV4 channel antagonist

Images



Biological Data

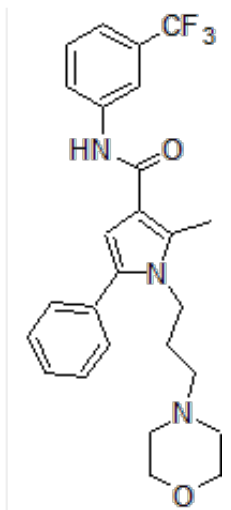
Biological description	Potent and selective TRPV4 channel antagonist (IC_{50} values are 17, 48 and 133 nM for mouse, human and rat TRPV4 channels respectively). Increases ATP release from porcine lenses (IC_{50} = 2.5 μ M). Also reduces 4 α -phorbol 12,13-didecanoate (4 α -PDD)-induced Ca^{2+} responses (IC_{50} = 22 nM). Exhibits reduced activity for TRPM8 and hERG channels.
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Solubility & Handling

Solubility overview	Soluble in DMSO (100mM) and in ethanol (25mM)
Storage instructions	+4 °C
Storage of solutions	Prepare and use solutions on the same day if possible. Store solutions at -20 °C for up to one month if storage is required. Equilibrate to RT and ensure the solution is precipitate free before use.
Shipping Conditions	Stable for ambient temperature shipping. Follow storage instructions on receipt.
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
Molecular Weight	471.5
Chemical structure	A placeholder box for the chemical structure diagram.



Molecular Formula	C ₂₆ H ₂₈ F ₃ N ₃ O ₂
CAS Number	883031-03-6
PubChem identifier	2742550
SMILES	<chem>CC1=C(C=C(N1CCCN2CCOCC2)C3=CC=CC=C3)C(=O)NC4=CC=CC(=C4)C(F)(F)F</chem>
Source	Synthetic
InChi	InChI=1S/C26H28F3N3O2/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)
InChiKey	NCZYSQOTAYFTNM-UHFFFAOYSA-N
MDL number	MFCD01571257
Appearance	White solid

References

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)

PubMedID [22492652](#)

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)

PubMedID [22962011](#)

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)

PubMedID [20956320](#)