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DATASHEET

RN 1734

Product overview

Name	RN 1734
Cat No	HB1196
Biological action	Antagonist
Purity	>98%
Description	TRPV4 channel antagonist

Images

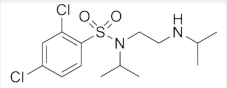
Biological Data

Biological description	TRPV4 channel antagonist (IC_{50} values are 2.3, 3.2 and 5.9 µM for hTRPV4, rTRPV4 and mTRPV4). Exhibits higher selectivity for TRPV4 over TRPV1, TRPV3 and TRPM8 channels (IC_{50} values = >30 µM). Also blocks ATP-sensitive K^+ channels.

Solubility & Handling

Storage instructions	+4°C
Solubility overview	Soluble in DMSO (100mM) and in ethanol (50mM)
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	2,4-Dichloro-*N*-isopropyl-*N*-(2-isopropylaminoethyl)benzenesulfonamide
Molecular Weight	353.31
Chemical structure	
Molecular Formula	$C_{14}H_{22}Cl_2N_2O_2S$
CAS Number	946387-07-1
PubChem identifier	3601086
SMILES	CC(C)NCCN(C(C)C)S(=O)(=O)C1=C(C=C(C=C1)Cl)Cl
Source	Sunthetic

Chemical name	2,4-Dichloro-*N*-isopropyl-*N*-(2-isopropylaminoethyl)benzenesulfonamide
InChi	InChI=1S/C14H22Cl2N2O2S/c1-10(2)17-7-8-18(11(3)4)21(19,20)14-6-5-12(15)9-13(14)16/h5-6,9-11,17H,7-8H2,1-4H3
InChiKey	IHYZMEAZAIFMTN-UHFFFAOYSA-N
MDL number	MFCD00129453
Appearance	White solid

References

Identification and characterization of novel TRPV4 modulators.

Vincent F *et al* (2009) Biochem Biophys Res Commun 389(3)
PubMedID 19737537

Low intravascular pressure activates endothelial cell TRPV4 channels, local Ca2+ events, and IKCa channels, reducing arteriolar tone.

Bagher P *et al* (2012) Proc Natl Acad Sci U S A 109(44)
PubMedID 23071308