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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



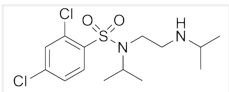
Biological Data

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.
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Solubility & Handling

Solubility overview	Soluble in DMSO (100mM) and in ethanol (50mM)
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	2,4-Dichloro-N-isopropyl-N-(2-isopropylaminoethyl)benzenesulfonamide
Molecular Weight	353.31
Chemical structure	
Molecular Formula	C ₁₄ H ₂₂ Cl ₂ N ₂ O ₂ S
CAS Number	946387-07-1

PubChem identifier	3601086
SMILES	<chem>CC(C)NCCN(C(C)C)S(=O)(=O)C1=C(C=C(C=C1)Cl)Cl</chem>
Source	Sunthetic
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](#)
