



Certificate of Analysis

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Product Name: RN 1734 Catalog No.: 3746 Batch No.: 2

CAS Number: 946387-07-1

IUPAC Name: 2,4-Dichloro-*N*-isopropyl-*N*-(2-isopropylaminoethyl)benzenesulfonamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{14}H_{22}CI_2N_2O_2S$

Batch Molecular Weight: 353.31 **Physical Appearance:** White solid

Solubility: DMSO to 100 mM

ethanol to 50 mM

Storage: Store at +4°C

Batch Molecular Structure:

2. ANALYTICAL DATA

Microanalysis:

HPLC: Shows 98% purity

¹H NMR: Consistent with structure Mass Spectrum: Consistent with structure

Carbon Hydrogen Nitrogen

Theoretical 47.59 6.28 7.93 Found 47.68 6.24 7.99



Product Information

Print Date: Nov 23rd 2016

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Description:

Selective TRPV4 antagonist (IC $_{50}$ values are 2.3, 3.2 and 5.9 μ M for hTRPV4, rTRPV4 and mTRPV4 receptors respectively). Displays selectivity for TRPV4 over other TRP channels (IC $_{50}$ values are 2.3, >30, >30 and >100 μ M for TRPV4, TRPV3, TRPM8 and TRPV1 respectively). Blocks TRPV4-mediated arteriole vasodilation and increases myogenic tone ex vivo.

Physical and Chemical Properties:

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Batch Molecular Weight: 353.31 Physical Appearance: White solid

Batch Molecular Structure:

Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 100 mM ethanol to 50 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Bagher *et al* (2012) Low intravascular pressure activates endothelial cell TRPV4 channels, local Ca2+ events, and IKCa channels, reducing arteriolar tone. Proc.Natl.Acad.Sci.U.S.A. *109* 18174. PMID: 23071308.

Vincent et al (2009) Identification and characterization of novel TRPV4 modulators. Biochem.Biophys.Res.Comms. 389 490. PMID: 19737537.