

Certificate of Analysis

Print Date: Jan 14th 2016

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Product Name: RN 1747 Catalog No.: 3745 Batch No.: 2

CAS Number: 1024448-59-6

IUPAC Name: 1-(4-Chloro-2-nitrophenyl)sulfonyl-4-benzylpiperazine

1. PHYSICAL AND CHEMICAL PROPERTIES

 $C_{17}H_{18}CIN_3O_4S$ **Batch Molecular Formula:**

Batch Molecular Weight: 395.87

Pale yellow solid **Physical Appearance:** Solubility: DMSO to 100 mM Store at +4°C Storage:

Batch Molecular Structure:

2. ANALYTICAL DATA

HPLC: Shows 99.7% purity

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

Microanalysis:

Carbon Hydrogen Nitrogen

Theoretical 51.58 10.61 4.58 Found 51.16 4.5 10.54



Product Information

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Description:

Selective TRPV4 agonist (EC $_{50}$ values are 0.77, 4.0 and 4.1 μ M for hTRPV4, mTRPV4 and rTRPV4 respectively). Displays selectivity over other TRP channels (EC $_{50}$ values are 0.77, >30, >30 and >100 μ M for TRPV4, TRPM8, TRPV3 and TRPV1 receptors respectively). Also antagonizes TRPM8 at relevant concentrations (IC $_{50}$ = 4 μ M).

Physical and Chemical Properties:

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Batch Molecular Weight: 395.87 Physical Appearance: Pale yellow solid

Batch Molecular Structure:

Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 100 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:

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