1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{14}H_{22}Cl_2N_2O_2S$
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:

![Molecular Structure]

2. ANALYTICAL DATA

HPLC: Shows 98% purity
$^1$H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

<table>
<thead>
<tr>
<th></th>
<th>Carbon</th>
<th>Hydrogen</th>
<th>Nitrogen</th>
</tr>
</thead>
<tbody>
<tr>
<td>Theoretical</td>
<td>47.59</td>
<td>6.28</td>
<td>7.93</td>
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<tr>
<td>Found</td>
<td>47.68</td>
<td>6.24</td>
<td>7.99</td>
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</table>
**Product Information**

**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

**Description:**
Selective TRPV4 antagonist (IC\(_{50}\) values are 2.3, 3.2 and 5.9 \(\mu\)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 \(\mu\)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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- **Physical Appearance:** White solid

**Batch Molecular Structure:**

![Batch Molecular Structure](image)

**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:**