1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: \( \text{C}_{11}\text{H}_9\text{Cl}_2\text{N}_3\text{O}_3\text{S} \cdot \frac{1}{2}\text{H}_2\text{O} \)
Batch Molecular Weight: 343.19
Physical Appearance: White solid
Solubility: DMSO to 100 mM, ethanol to 10 mM
Storage: Store at +4°C

2. ANALYTICAL DATA

TLC: \( R_f = 0.35 \) (Ethyl acetate:Petroleum ether [1:3])
HPLC: Shows 99% purity
\(^1\)H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis: Carbon Hydrogen Nitrogen

<table>
<thead>
<tr>
<th></th>
<th>Theoretical</th>
<th>Found</th>
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</thead>
<tbody>
<tr>
<td>Carbon</td>
<td>38.5</td>
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<tr>
<td>Hydrogen</td>
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<tr>
<td>Nitrogen</td>
<td>12.24</td>
<td>12.03</td>
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</table>
**Product Name:** AZD 2098  
**Catalog No.:** 6541  
**Batch No.:** 1

**CAS Number:** 566203-88-1  
**IUPAC Name:** 2,3-Dichloro-N-(3-methoxy-2-pyrazinyl)benzenesulfonamide

**Description:** Potent and selective CCR4 antagonist (pIC$_{50} = 7.8$). Exhibits no activity at CXCR1 and CXCR2, CCR1, CCR2b, CCR5, CCR7, and CCR8 at 10 μM, and no significant activity when screened against a panel of 120 receptors and enzymes. Inhibits CCL22 Ca$^{2+}$ response and Th2 cell CCL17/22 driven chemotaxis in vitro. Inhibits lung inflammation following antigen challenge in ovalbumin- sensitized rats.

**Physical and Chemical Properties:**
- **Batch Molecular Formula:** C$_{11}$H$_5$Cl$_2$N$_5$O$_3$S.$\frac{1}{2}$H$_2$O
- **Batch Molecular Weight:** 343.19
- **Physical Appearance:** White solid
- **Minimum Purity:** >98%

**Batch Molecular Structure:**

![Molecular Structure](image)

**Storage:** Store at +4°C

**Solubility & Usage Info:**
- DMSO to 100 mM
- Ethanol to 10 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:**