1. PHYSICAL AND CHEMICAL PROPERTIES

   Batch Molecular Formula: \( C_{30}H_{36}N_{2}O_{2}\cdot HCl \cdot \frac{1}{2}H_2O \)
   Batch Molecular Weight: 502.09
   Physical Appearance: White solid
   Solubility: DMSO to 50 mM ethanol to 10 mM with gentle warming
   Storage: Store at -20°C
   Batch Molecular Structure:

   ![Molecular Structure Image]

2. ANALYTICAL DATA

   TLC: \( R_f = 0.66 \) (Ethyl acetate:Petroleum ether [1:1])
   HPLC: Shows >99% purity
   \(^1\)H NMR: Consistent with structure
   Mass Spectrum: Consistent with structure
   Microanalysis:

<table>
<thead>
<tr>
<th>Element</th>
<th>Theoretical</th>
<th>Found</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon</td>
<td>71.77</td>
<td>71.66</td>
</tr>
<tr>
<td>Hydrogen</td>
<td>7.63</td>
<td>7.94</td>
</tr>
<tr>
<td>Nitrogen</td>
<td>5.58</td>
<td>5.43</td>
</tr>
</tbody>
</table>

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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**Product Information**

**Product Name:** W 54011  
**Catalog No.:** 5455  
**Batch No.:** 1

**CAS Number:** 405098-33-1  
**IUPAC Name:** \(N-[[4-(Dimethylamino)phenyl]methyl]-1,2,3,4-tetrahydro-7-methoxy-N-[4-(1-methylethyl)phenyl]-1-naphthalenecarboxamide hydrochloride\)

**Description:**
High affinity C5a receptor antagonist (\(K_i = 2.2 \text{ nM}\)). Inhibits C5a-induced generation of reactive superoxide species, chemotaxis and intracellular \(\text{Ca}^{2+}\) mobilization in human neutrophils (IC\(_{50}\) values are 1.6, 2.7 and 3.1 nM, respectively).

**Physical and Chemical Properties:**
- **Batch Molecular Formula:** \(C_{30}H_{36}N_2O_5\cdot\text{HCl} \cdot \frac{1}{2}H_2O\)
- **Batch Molecular Weight:** 502.09
- **Physical Appearance:** White solid
- **Minimum Purity:** >98%

**Storage:** Store at -20°C

**Solubility & Usage Info:**
- DMSO to 50 mM
- Ethanol to 10 mM with gentle warming

**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:**