**Product Name:** ML 298 hydrochloride

**Catalog No.:** 4895  
**Batch No.:** 1

**IUPAC Name:** 3,4-Difluoro-N-[2-[1-(3-fluorophenyl)-4-oxo-1,3,8-triazaspiro[4.5]dec-8-yl]ethyl]benzamide hydrochloride

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### 1. PHYSICAL AND CHEMICAL PROPERTIES

- **Batch Molecular Formula:** \( C_{22}H_{23}F_3N_4O_2.HCl.\frac{1}{4}H_2O \)
- **Batch Molecular Weight:** 473.4
- **Physical Appearance:** Off-white solid
- **Solubility:** DMSO to 25 mM
- **Storage:** Desiccate at RT

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### 2. ANALYTICAL DATA

- **TLC:**  
  \( R_f = 0.3 \) (Dichloromethane:Methanol [95:5])

- **HPLC:**  
  Shows >99% purity

- **\(^1^H\) NMR:**  
  Consistent with structure

- **Mass Spectrum:**  
  Consistent with structure

- **Microanalysis:**
  
<table>
<thead>
<tr>
<th>Theoretical</th>
<th>Found</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon</td>
<td>55.82</td>
</tr>
<tr>
<td>Hydrogen</td>
<td>5.22</td>
</tr>
<tr>
<td>Nitrogen</td>
<td>11.83</td>
</tr>
</tbody>
</table>

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

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Product Name: ML 298 hydrochloride

IUPAC Name: 3,4-Difluoro-N-[2-[1-(3-fluorophenyl)-4-oxo-1,3,8-triazaspiro[4.5]dec-8-yl]ethyl]benzamide hydrochloride

Description:
Selective inhibitor of phospholipase D2 (PLD2) (IC<sub>50</sub> values are 355 and >20,000 nM for PLD2 and PLD1, respectively). Decreases invasive migration in U87-MG glioblastoma cells, without affecting cell viability.

Physical and Chemical Properties:
Batch Molecular Formula: C<sub>22</sub>H<sub>23</sub>F<sub>3</sub>N<sub>2</sub>O<sub>2</sub>·HCl·½H<sub>2</sub>O
Batch Molecular Weight: 473.4
Physical Appearance: Off-white solid

Batch Molecular Structure:

Storage:
Desiccate at RT

Solubility & Usage Info:
DMSO to 25 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: