Product Name: AS 2444697
Catalog No.: 5430
Batch No.: 1
CAS Number: 1287665-60-4
IUPAC Name: \( N\text{-}[3\text{-Aminocarbonyl})\text{-}1\text{-}(\text{tetrahydro}-2\text{H}\text{-pyran-4-yl})\text{-}1\text{H}\text{-pyrazol-4-yl}]\text{-}2\text{-}(2\text{-methyl-4-pyridinyl})\text{-}4\text{-oxazolecarboxamide} \) hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: \( \text{C}_{19}\text{H}_{20}\text{N}_{6}\text{O}_{4}.\text{HCl}.1\text{½H}_{2}\text{O} \)
Batch Molecular Weight: 459.88
Physical Appearance: Off White solid
Solubility: DMSO to 20 mM with gentle warming
Storage: Desiccate at RT

2. ANALYTICAL DATA

HPLC: Shows 99.1% purity
\(^1\text{H} NMR: \) Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

<table>
<thead>
<tr>
<th>Element</th>
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<tr>
<td>Carbon</td>
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<td>Nitrogen</td>
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</tbody>
</table>

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use
Product Name: AS 2444697  
Catalog No.: 5430  
Batch No.: 1

**Description:**
Potent and selective interleukin-1 receptor-associated kinase 4 (IRAK4) inhibitor (IC\(_{50}\) = 21 nM). Displays 30-fold selectivity for IRAK4 over IRAK1. Inhibits LPS-induced TNF-\(\alpha\) and IL-6 production in PBMCs in vitro. Renoprotective and anti-inflammatory in a rodent model of chronic kidney disease.

**Physical and Chemical Properties:**

- **Batch Molecular Formula:** C\(_{18}\)H\(_{20}\)N\(_{8}\)O\(_{4}\)·HCl·1\(\frac{1}{2}\)H\(_{2}\)O
- **Batch Molecular Weight:** 459.88
- **Physical Appearance:** Off White solid

**Minimum Purity:** >98%

**Storage:** Desiccate at RT

**Solubility & Usage Info:**
DMSO to 20 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:**