1. PHYSICAL AND CHEMICAL PROPERTIES

- **Batch Molecular Formula:** $\text{C}_{19}\text{H}_{20}\text{N}_6\text{O}_4\cdot\text{HCl}\cdot\text{H}_2\text{O}$
- **Batch Molecular Weight:** 459.88
- **Physical Appearance:** Off White solid
- **Solubility:** DMSO to 100 mM
- **Storage:** Desiccate at RT

2. ANALYTICAL DATA

- **HPLC:** Shows 99.1% 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>49.62</td>
</tr>
<tr>
<td>Hydrogen</td>
<td>5.26</td>
</tr>
<tr>
<td>Nitrogen</td>
<td>18.27</td>
</tr>
</tbody>
</table>
Product Name: AS 2444697
Catalog No.: 5430
Batch No.: 1

CAS Number: 1287665-60-4
IUPAC Name: N-[3-Aminocarbonyl]-1-(tetrahydro-2H-pyran-4-yl)-1H-pyrazol-4-yl]-2-(2-methyl-4-pyridinyl)-4-oxazolecarboxamide hydrochloride

Description:
Potent and selective interleukin-1 receptor-associated kinase 4 (IRAK4) inhibitor (IC₅₀ = 21 nM). Displays 30-fold selectivity for IRAK4 over IRAK1. Inhibits LPS-induced TNF-α 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_{19}H_{22}N_{6}O_{6}.HCl.1½H₂O
Batch Molecular Weight: 459.88
Physical Appearance: Off White solid
Minimum Purity: >98%

Storage: Desiccate at RT
Solubility & Usage Info:
DMSO to 100 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).

References:
