Product Name: AS 2444697
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

1. PHYSICAL AND CHEMICAL PROPERTIES

   Batch Molecular Formula: C_{19}H_{20}N_{6}O_{4}.HCl.H_{2}O
   Batch Molecular Weight: 450.88
   Physical Appearance: Off White solid
   Solubility: DMSO to 20 mM with gentle warming
   Storage: Desiccate at RT
   Batch Molecular Structure:

2. ANALYTICAL DATA

   HPLC: Shows 99.4% purity
   \textsuperscript{1}H NMR: Consistent with structure
   Mass Spectrum: Consistent with structure
   Microanalysis:

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Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use
Product Name: AS 2444697
Catalog No.: 5430 Batch No.: 2

CAS Number: 1287665-60-4
IUPAC Name: N-[3-Aminocarbonyl)-(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 (IC_{50} = 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_{16}H_{20}N_{2}O_{4}.HCl.H_{2}O
Batch Molecular Weight: 450.88
Physical Appearance: Off White solid

Minimum Purity: >98%

Batch Molecular Structure:

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: