

Product Name: AS 2444697

Catalog No.: 5430

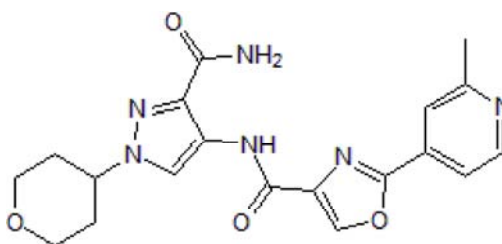
Batch No.: 2

CAS Number: 1287665-60-4

IUPAC Name: *N*-[3-Aminocarbonyl)-1-(tetrahydro-2*H*-pyran-4-yl)-1*H*-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:	



HCl

2. ANALYTICAL DATA

HPLC:	Shows 99.4% purity
¹H NMR:	Consistent with structure
Mass Spectrum:	Consistent with structure

Microanalysis:	Carbon	Hydrogen	Nitrogen
Theoretical	50.61	5.14	18.64
Found	50.33	5.22	18.51

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

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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:

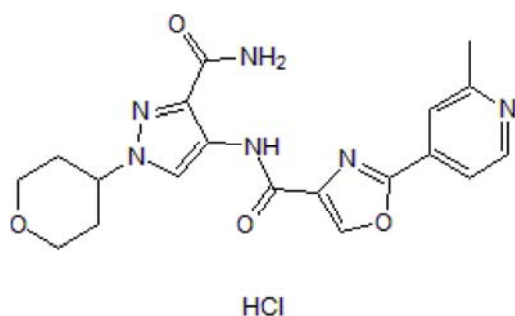
Batch Molecular Formula: C₁₉H₂₀N₆O₄.HCl.H₂O

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:

Chaudhary (2015) Recent advances in the discovery of small molecule inhibitors of interleukin-1 receptor-associated kinase 4 (IRAK4) as a therapeutic target for inflammation and oncology disorders. *J.Med.Chem.* **58** 96. PMID: 25479567.

Kondo et al (2014) Renoprotective effects of novel interleukin-1 receptor-associated kinase 4 inhibitor AS2444697 through anti-inflammatory action in 5/6 nephrectomized rats. *Naunyn Schmiedebergs Arch.Pharmacol.* **387** 909. PMID: 25052043.

Schmaderer and Heemann (2014) Blocking innate immunity to slow the progression of chronic kidney disease. *Naunyn Schmiedebergs Arch.Pharmacol.* **387** 905. PMID: 25107563.

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