

Product Name: AZ 12799734

Catalog No.: 6870

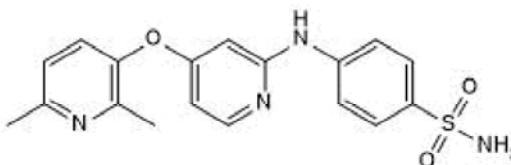
Batch No.: 1

CAS Number: 1117684-36-2

IUPAC Name: 4-[[4-[(2,6-Dimethyl-3-pyridinyl)oxy]-2-pyridinyl]amino]benzenesulfonamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₈H₁₈N₄O₃S
Batch Molecular Weight: 370.43
Physical Appearance: White solid
Solubility: DMSO to 100 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 100.0% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	58.36	4.9	15.12
Found	58.26	4.92	15.12

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

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IUPAC Name: 4-[[4-[(2,6-Dimethyl-3-pyridinyl)oxy]-2-pyridinyl]amino]benzenesulfonamide

Description:

AZ 12799734 is a potent inhibitor of transforming growth factor- β type I receptor (TGF- β RI; ALK5) (IC_{50} = 17 nM in cellular inhibition assay and 47 nM in TGF- β -induced luciferase activity assay). Also inhibits ALK4, ALK6 and ALK7 at concentrations under 10 μ M. Inhibits BMP signaling, phosphorylation of SMAD1 and SMAD2, and TGF- β -induced epithelial cell migration in vitro. Displays cardiotoxicity in vivo. Orally bioavailable.

Physical and Chemical Properties:

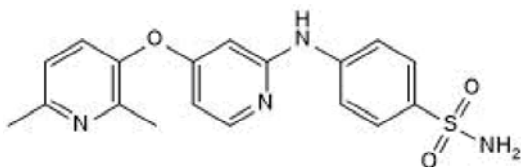
Batch Molecular Formula: C₁₈H₁₈N₄O₃S

Batch Molecular Weight: 370.43

Physical Appearance: White solid

Minimum Purity: \geq 98%

Batch Molecular Structure:



Storage: Store at -20°C

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).

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:

Spender et al (2019) Preclinical evaluation of AZ12601011 and AZ12799734, inhibitors of transforming growth factor β superfamily type 1 receptors. *Mol.Pharmacol.* **95** 222. PMID: 30459156.

Anderton et al (2011) Induction of heart valve lesions by small-molecule ALK5 inhibitors. *Toxicol.Pathol.* **39** 916. PMID: 21859884.

Goldberg et al (2009) Rapid generation of a high quality lead for transforming growth factor-beta (TGF-beta) type I receptor (ALK5). *J.Med.Chem.* **52** 7901. PMID: 19736928.

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