
Product Data Sheet

Product Name: AZ 12799734

Cat. No.: GC50589

Chemical Properties

Cas. No. 1117684-36-2

SMILES CC1=NC(C)=C(OC2=CC=NC(NC3=CC=C(C=C3)[S](N)(=O)=O)=C2)C=C1Formula $C_{18}H_{18}N_4O_3S$ M.Wt 370.43

Solubility Soluble in DMSO Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure **Background**

Potent inhibitor of transforming growth factor- β type I receptor (TGF- β RI; ALK5) (IC₅₀ = 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.

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

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA