



Data Sheet

Research Use Only

Compound Name

ALK5 Inhibitor II

Catalog Number

SM09

Alternative Names

2-(3-(6-methylpyridine-2-yl)-1H-pyrazol-4-yl)-1,5-naphthyridine

Activity

ALK5 Inhibitor II is a cell permeable, potent, selective and ATP-competitive inhibitor of TGF- β RI kinase (IC₅₀=23nM, 4nM and 18nM for binding, auto-phosphorylation and cellular assay in HepG2 cells of TGF- β RI kinase, respectively). TGF β RI (ALK5) Inhibitor II affects a panel of 9 closely related kinases including p38 MAPK (IC₅₀ >16 μ M), minimally.

Effect

ALK5 can replace Sox2 for generation of induced pluripotent stem cells (iPSC).

Purity

>98%

CAS

446859-33-2

Formula

C₁₇H₁₃N₅

Molecular Weight

287.32

Solubility

DMSO

Stability

Stable at -20°C. Keep away from direct sunlight.

References

1. Gellibert, F., et al. 2004. J Med Chem 47: 4494-4506. PMID: 15317461
2. Ichida, J.K., et al. 2009. Cell Stem Cell 5: 491-503. PMID: 19818703