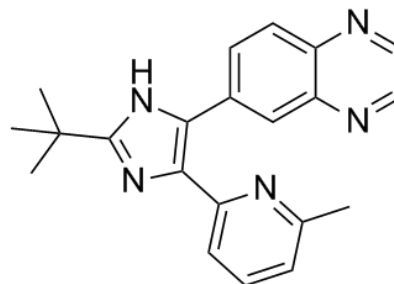


Product Name : SB-525334
Cat. No. : PC-42858
CAS No. : 356559-20-1
Molecular Formula : C₂₁H₂₁N₅
Molecular Weight : 343.4249
Target : TGF beta Receptor (TGFBR)
Solubility : DMSO: ≥ 46 mg/mL



Biological Activity

SB-525334 is a potent and selective inhibitor of TGF-β1 receptor (**ALK5**) inhibitor with IC₅₀ of 14,5 nM, 4-fold less potent against ALK4 and inactive for ALK2, ALK3, and ALK6 (IC₅₀>10 μM).

SB 525334 blocks TGFβ1-induced phosphorylation and nuclear translocation of Smad2/3 in renal proximal tubule cells and inhibits TGFβ1-induced increases in PAI-1 and procollagen α1 mRNA expression in A498 renal epithelial carcinoma cells at 1 μM.

SB 525334 significantly inhibits PAN-induced proteinuria in rat model of nephritis-induced renal fibrosis.

References

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Laping NJ, et al. *Clin Cancer Res*. 2007 May 15;13(10):3087-99.

Thomas M, et al. *Am J Pathol*. 2009 Feb;174(2):380-9.

Kim YJ, et al. *Anticancer Res*. 2012 Mar;32(3):799-806.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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