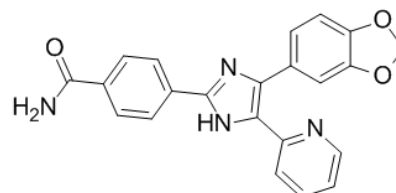


Product Name : SB-431542
Cat. No. : PC-42581
CAS No. : 301836-41-9
Molecular Formula : C₂₂H₁₆N₄O₃
Molecular Weight : 384.3875
Target : TGF beta Receptor (TGFBR)
Solubility :



Biological Activity

SB-431542 is a potent, specific **TGF- β type I receptor (ALK5)** inhibitor with IC₅₀ of 94 nM. SB-431542 also substantially inhibits ALK4 and 7, but not other ALKs. SB-431542 efficiently inhibits the ability of activated ALK4, ALK5, and ALK7 to phosphorylate Smad2. SB-431542 is a selective inhibitor of endogenous activin and TGF-beta signaling but has no effect on BMP signaling, and has no effect on components of the ERK, JNK, or p38 MAP kinase pathways.

References

- Callahan JF, et al. *J Med Chem.* 2002 Feb 28;45(5):999-1001.
Inman GJ, et al. *Mol Pharmacol.* 2002 Jul;62(1):65-74.
Matsuyama S, et al. *Cancer Res.* 2003 Nov 15;63(22):7791-8.
Hjelmeland MD, et al. *Mol Cancer Ther.* 2004 Jun;3(6):737-45.

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

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