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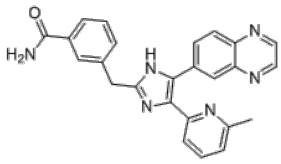
Data Sheet

Global Supplier of Chemical Probes, Inhibitors & Agonists.

Product Name	:	IN-1130
Cat. No.	:	PC-70054
CAS No.	:	868612-83-3
Molecular Formula	:	$C_{25}H_{20}N_6O$
Molecular Weight	:	420.47
Target	:	TGF beta Receptor (TGFBR)
Solubility	:	10 mM in DMSO



Biological Activity

IN-1130 is a potent, highly selective **ALK5** inhibitor, inhibits the purified kinase domain of ALK5-mediated Smad3 phosphorylation with an IC50 of 5.3 nM.
IN-1130 is highly selective in a panel of 27 serine/threonine and tyrosine kinases including p38α.
IN-1130 decreases levels of TGF-beta1 mRNA, type I collagen mRNA, and pSmad2, compared to UUO control rats.
IN-1130 inhibits renal fibrosis in obstructive nephropathy in vivo models.

References

Moon JA, et al. ***Kidney Int.*** 2006 Oct;70(7):1234-43.

Ryu JK, et al. ***J Sex Med***. 2009 May;6(5):1284-96.

Park CY, et al. ***Cancer Lett***. 2014 Aug 28;351(1):72-80.

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