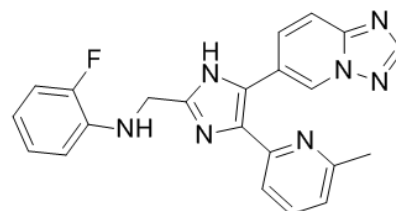


Product Name : EW-7197
Cat. No. : PC-45749
CAS No. : 1352608-82-2
Molecular Formula : C₂₂H₁₈N₇
Molecular Weight : 399.4236
Target : TGF beta Receptor (TGFBR)
Solubility : 10 mM in DMSO



Biological Activity

EW-7197 (Vactosertib, TEW-7197) is a highly potent, selective inhibitor of TGF- β type I receptor kinase (**ALK5**) with IC₅₀ of 11 nM.

EW-7197 (Vactosertib, TEW-7197) also inhibits ALK4 (IC₅₀=13 nM) and shows less potency for p38 α (IC₅₀=280 nM).

EW-7197 (Vactosertib, TEW-7197) exhibits no inhibition on ALK1/2/3/6 (>10 μ M).

EW-7197 (Vactosertib, TEW-7197) inhibits Smad/TGF β signaling, cell migration, invasion, and lung metastasis in MMTV/c-Neu mice and 4T1 orthotopic-grafted mice.

EW-7197 (Vactosertib, TEW-7197) shows oral bioavailability (HCl salt).

References

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Son JY, et al. *Mol Cancer Ther.* 2014 Jul;13(7):1704-16.

Yoon JH, et al. *EMBO Mol Med.* 2013 Nov;5(11):1720-39.

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

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