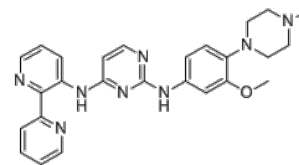


Product Name : TP-0184
Cat. No. : PC-21414
CAS No. : 1628870-27-8
Molecular Formula : C₂₆H₂₈N₈O
Molecular Weight : 468.57
Target : TGF beta Receptor (TGFBR)
Solubility : 10 mM in DMSO



CAS: 1628870-27-8

Biological Activity

Itacnosertib (TP-0184) is a novel potent, selective inhibitor of type I bone morphogenetic protein (BMP) receptor **ACVR1** (activin A receptor-type 1, ALK2) and **FLT3** with IC₅₀ of 8.0 nM (ALK2).

TP-0184 binds to both ACVR1 and FLT3 with high affinity and inhibits FLT3/ACVR1 downstream signaling.

TP-0184 selectively caused growth arrest in FLT3-mutated AML cell lines.

Treatment with TP-0184 or in combination with BCL2 inhibitor, venetoclax dramatically inhibited leukemia growth in FLT3-mutated AML cell lines and patient-derived xenograft models in a dose-dependent manner.

References

Anudishi Tyagi, et al. *Leukemia*. 2023 Nov 25. doi: 10.1038/s41375-023-02086-6.

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

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