

Product Name : TP-5801
Cat. No. : PC-25820
CAS No. : 2574474-81-8
Molecular Formula : C₂₄H₃₁BrN₈O
Molecular Weight : 527.47
Target : Other Targets
Solubility : 10 mM in DMSO



Biological Activity

TP-5801 is a potent, specific inhibitor of Thirty-eight-negative kinase-1 (TNK1) with IC₅₀ of 1.4 nM, inhibits TNK1-transformed cells.

TP-5801 is potent IC₅₀ of 10.5 nM against TNK1 in Nano-BRET analysis.

TP-5801 (300 nM) shows clear selectivity profile against a panel of 371 kinases in vitro, only 7 other kinases were inhibited by more than 90%.

TP-5801 inhibits TNK1-driven cell growth with IC₅₀s of 76.78 and 36.95 nM against Ba/F3 WT TNK1 and AAA mutant cells.

TP-5801 inhibits BCR-ABL-driven and IL-3-driven Ba/F3 cell growth with IC₅₀s of 8.5 and 1.2 μM, respectively.

TP-5801 (10 mg/kg, daily oral administration) significantly reduced tumor burden in NOD/SCID mice were subcutaneously injected with TNK1-AAA driven Ba/F3-luc cells.

References

Chan TY, et al. Nat Commun. 2021 Sep 9;12(1):5337.

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

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