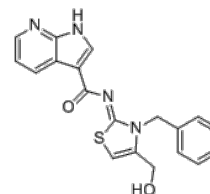


Product Name : TDI-011536
Cat. No. : PC-49206
CAS No. : 2687970-96-1
Molecular Formula : C₁₉H₁₆N₄O₂S
Molecular Weight : 364.423
Target : Hippo
Solubility : 10 mM in DMSO



Biological Activity

TDI-011536 is a potent, ATP-competitive inhibitor of **Lats kinases** with IC₅₀ of 0.76 nM (2 mM ATP) in vitro assays, prevents Yap phosphorylation in the cell-based assays with EC₅₀ of 10 nM.

TDI-011536 (3 uM, 24h) reduced Yap phosphorylation by almost 80% on retinal organoids derived from human induced pluripotent stem cells.

TDI-011536 was significantly more potent than TRULI in stimulating Yap signaling and the proliferation of Müller glia in human retinal organoids.

TDI-011536 (200 mg/kg, i.p.) demonstrated a remarkable reduction in pYap relative to total Yap in the heart, liver, and skin in living animals, and this effect was reversible.

TDI-011536 upregulated Yap-target genes and induced proliferative effect on cardiomyocytes in vivo.

References

Nathaniel R Kastan, et al. *Proc Natl Acad Sci U S A*. 2022 Jul 12;119(28):e2206113119.

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

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