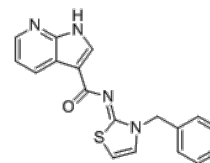


Product Name : TRULI
Cat. No. : PC-49207
CAS No. : 1424635-83-5
Molecular Formula : C₁₈H₁₄N₄OS
Molecular Weight : 334.397
Target : Hippo
Solubility : 10 mM in DMSO



Biological Activity

TRULI is a small molecule **Yap signaling** activator, acts as an ATP-competitive inhibitor of **Lats kinases** in vitro (Lats1 kinase, IC₅₀=0.2 nM, 10 uM ATP), prevents **Yap** phosphorylation in the cell-based assays with EC₅₀ of 510 nM.

TRULI potently inhibits Lats1 kinase activity with IC₅₀ of 4.3nM at 50 uM ATP, and 80 nM at 250 uM ATP.

TRULI inhibits both Lats1 and Lats2 with IC₅₀ of 0.2 nM.

TRULI treatment reduced the proportion of phosphorylated Yap and induced cardiomyocyte proliferation on cardiomyocytes and Müller glia.

TRULI (10 uM, 24 h) reduced Yap phosphorylation on retinal organoids derived from human induced pluripotent stem cells.

TRULI promotes the initial stages of proliferative regeneration of the sensory receptors in the inner ear.

References

Nathaniel Kastan, et al. **Nat Commun.** 2021 May 25;12(1):3100.

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

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