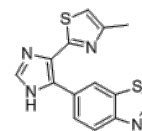


Product Name : TP-0427736
Cat. No. : PC-61454
CAS No. : 864374-00-5
Molecular Formula : C₁₄H₁₀N₄S₂
Molecular Weight : 298.382
Target : TGF beta Receptor (TGFBR)
Solubility : 10 mM in DMSO



Biological Activity

TP-0427736 (TP0427736) is a novel potent and selective **ALK5** inhibitor with IC₅₀ of 2.72 nM, displays 300-fold selectivity over ALK3.

TP-0427736 inhibits Smad2/3 phosphorylation in A549 cells (IC₅₀=8.7 nM) and decreases the growth inhibition of human outer root sheath cells.

TP-0427736 significantly decreases Smad2 phosphorylation in mouse skin after topical application, may serves as a potential new therapy for AGA.

References

Amada H, et al. *Bioorg Med Chem.* 2012 Dec 15;20(24):7128-38.

Naruse T, et al. *Pharmacol Rep.* 2017 Jun;69(3):485-491.

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

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