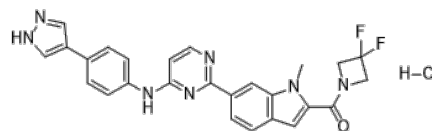


Product Name : TDI01 hydrochloride
Cat. No. : PC-28090
CAS No. : 2762238-94-6
Molecular Formula : C₂₆H₂₂ClF₂N₇O
Molecular Weight : 521.96
Target : ROCK
Solubility : 10 mM in DMSO



Biological Activity

Fimosudil hydrochloride (TDI01, TDI01470) is a potent, highly selective Rho-associated coiled-coil containing kinase 2 (**ROCK2**) inhibitor with IC₅₀ of 10.31 nM, 598-fold selectivity over ROCK1.

TDI01 exhibits high-affinity binding to ROCK2 (K_D=65.56 nM) in BLI assays, with negligible binding to ROCK1 up to 60 μM.

TDI01 exhibits dose-dependent inhibition of ROCK2 activity in ECs and LX2 cells.

TDI01 (5 mg/kg, oral) decreased serum ALT and AST levels, lowered hepatic HYP content, alleviated liver collagen deposition, and reduced steatosis in mouse MASH model.

TDI01 is at least partially mediated by attenuating the production of pro-fibrotic galectin-3 from liver ECs.

References

Hu Y, et al. **Cell**. 2026 Apr 30;189(9):2663-2683.e26.

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

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