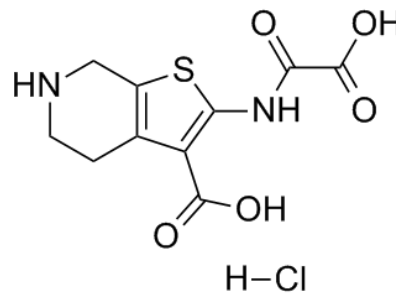


Product Name : TCS401
Cat. No. : PC-42970
CAS No. : 243966-09-8
Molecular Formula : C₁₀H₁₁ClN₂O₅S
Molecular Weight : 306.7227
Target : Protein Phosphatase/PTP
Solubility : DMSO: 11 mg/mL



Biological Activity

TCS-401 (TCS401) is a potent, selective inhibitor of protein-tyrosine phosphatase 1B (**PTP1B**) with K_i of 0.29 μ M, weakly inhibits the protein phosphatases CD45 D1D2, PTP β , PTP ϵ D1, SHP-1, PTP α D1, and LAR D1D2 with K_i of 59, 560, 1,100, >2,000, >2,000, and >2,000 μ M.

TCS-401 dose dependently inhibits the RPTC-Sup-induced reduction of fibronectin and α -SMA.

TCS-401 reduces RPTC-Sup-induced EGFR dephosphorylation and reverses the levels of fibronectin and α -SMA in renal fibroblasts.

References

Iversen LF, et al. *J Biol Chem.* 2000 Apr 7;275(14):10300-7.

Ponnusamy M, et al. *Am J Physiol Renal Physiol.* 2013 Mar 15;304(6):F698-709.

Du ZD, et al. *Mol Vis.* 2015 May 1;21:523-31. eCollection 2015.

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

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