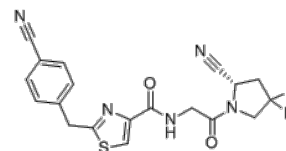


Product Name : BR103354
Cat. No. : PC-72073
CAS No. : 2505339-87-5
Molecular Formula : C₁₉H₁₅F₂N₅O₂S
Molecular Weight : 415.419
Target : Dipeptidyl Peptidase (DPP)
Solubility : 10 mM in DMSO (4.15 mg/mL)



Biological Activity

BR103354 (BR 103354) is a novel potent, selective, oral **fibroblast activation protein (FAP)** inhibitor with IC₅₀ of 14 nM. BR103354 displays high selectivity against other related proteases with a selectivity index (SI) of 27.6 against PREP (PREP IC₅₀=387 nM).

BR103354 (0.4 μM) blocked FAP-mediated cleavage of hFGF21 in cell-free assays; In differentiated 3T3/L1 adipocytes, the addition of FAP diminished hFGF21-induced Glut1 and phosphorylated levels of ERK, which were restored by BR103354. BR103354 exhibited good pharmacokinetic properties as evidenced by oral bioavailability of 48.4% and minimal hERG inhibition.

BR103354 reduced nonfasting blood glucose concentrations with improved glucose tolerance and with reduced triglyceride (TG) content in liver of ob/ob mice, improved hepatic steatosis and fibrosis in NASH mouse model.

References

Jae Min Cho, et al. *Sci Rep.* 2020 Dec 4;10(1):21280.

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

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