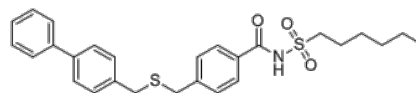


Product Name : KY-226
Cat. No. : PC-35377
CAS No. : 1621673-53-7
Molecular Formula : C₂₇H₃₁NO₃S₂
Molecular Weight : 481.669
Target : Protein Phosphatase/PTP
Solubility : 10 mM in DMSO



Biological Activity

KY-226 (KY226) is a potent, allosteric, orally active inhibitor of protein tyrosine phosphatase 1B (**PTP1B**) with IC₅₀ of 0.28 uM (human PTP1B), does not exhibit PPAR γ agonist activity.

KY-226 shows no effects on adipocyte differentiation in rodent preadipocytes at 10 uM, but not the PPAR γ agonist pioglitazone.

KY-226 increases the phosphorylated insulin receptor (pIR) produced by insulin in human hepatoma-derived cells (HepG2) at 0.310 uM.

KY-226 significantly reduces plasma glucose and triglyceride levels as well as hemoglobin A1c values without increasing body weight gain in db/db mice.

KY-226 exerts anti-diabetic and anti-obesity effects by enhancing insulin and leptin signaling.

References

Ito Y, et al. *J Pharmacol Sci.* 2018 May;137(1):38-46.

Sun M, et al. *Brain Res.* 2018 Sep 1;1694:1-12.

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

E-mail: tech@probechem.com