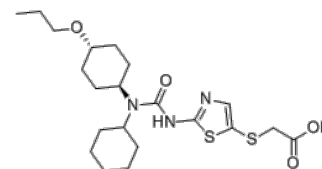


Product Name : TTP399
Cat. No. : PC-36020
CAS No. : 859525-02-3
Molecular Formula : C₂₁H₃₃N₃O₄S₂
Molecular Weight : 455.63
Target : Glucokinase
Solubility : 10 mM in DMSO



Biological Activity

Cadisegliatin (TTP399) is a hepatoselective, oral **Glucokinase (GK) activator** with EC₅₀ of 304 nM and 762 nM for human GK at high glucose concentration (15 mM) and normoglycemia (5 mM), respectively.

TTP399 increases GK activity in the liver without affecting the physiological role of GK (active when plasma glucose concentrations are high and inactive at low/normal plasma glucose concentration).

TTP399 increases glucose metabolism in rat hepatocytes with EC₅₀ 2.39 and 2.64 μM in the presence of 15 mM glucose for lactate production and glycogen content, respectively.

TTP399 improves glycemic control in both animal models of type 2 diabetes and patients with type 2 diabetes.

References

Vella A, et al. *Sci Transl Med*. 2019 Jan 16;11(475). pii: eaau3441.

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

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