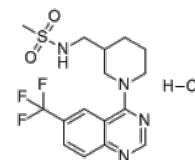


Product Name : SRI-37330
Cat. No. : PC-72383
CAS No. : 2322245-49-6
Molecular Formula : C₁₆H₂₀ClF₃N₄O₂S
Molecular Weight : 424.867
Target : Other Targets
Solubility : 50 mg/mL (DMSO)



Biological Activity

SRI-37330 (SRI 37330) is an orally available small molecule that regulates **TXNIP** expression, inhibits endogenous TXNIP mRNA expression (IC₅₀=0.64 uM, INS-1 cells qRT-PCR assays).

SRI-37330 inhibited the activity of the human TXNIP promoter in INS-1 cells by 70% and no cytotoxicity, significantly inhibited TXNIP expression in rat INS-1 cells, primary mouse islets, and isolated human islets.

SRI-37330 significantly changed TXNIP-associated genes, upregulated CTGF, BCL2L1, IGF1R and MAFA, downregulated NLRP1 and MLXIPL, in INS-1 cells.

SRI-37330 effectively inhibited polymerase II (Pol II) binding to the E-box motif region of the TXNIP promoter, but not to an upstream TXNIP promoter region or to an established Pol II binding site in the insulin receptor substrate 2 (IRS2).

SRI-37330 lowers serum glucagon levels, inhibits hepatic glucose production and improves glucose homeostasis in mice (100 mg/kg/day in the drinking water).

References

Lance A Thielen, et al. *Cell Metab.* 2020 Sep 1;32(3):353-365.e8.

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

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