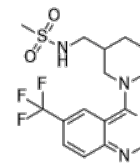


**Product Name** : TIX100  
**Cat. No.** : PC-24044  
**CAS No.** : 2322245-42-9  
**Molecular Formula** : C<sub>16</sub>H<sub>19</sub>F<sub>3</sub>N<sub>4</sub>O<sub>2</sub>S  
**Molecular Weight** : 388.41  
**Target** : Other Targets  
**Solubility** : 10 mM in DMSO



## Biological Activity

SRI-37330 (TIX100) is an orally available small molecule that regulates TXNIP expression, inhibits endogenous TXNIP mRNA expression (IC<sub>50</sub>=0.64 μM, 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.

Jing G, et al. Front Endocrinol (Lausanne). 2024 Oct 4;15:1476444.

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

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