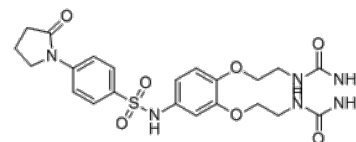


Product Name : SZ0232
Cat. No. : PC-38642
CAS No. : 924851-91-2
Molecular Formula : C₂₂H₂₈N₆O₇S
Molecular Weight : 520.561
Target : PGE synthase
Solubility : 10 mM in DMSO



Biological Activity

SZ0232 is a small molecule **mPGES-2** (microsomal prostaglandin E synthase-2) inhibitor with IC₅₀ of <1 uM, exhibits beneficial effects on modulating β-cell function and glucose metabolism both in vitro and in vivo.

SZ0232 effectively reduced PGE₂ production and increase insulin release in vitro, increased insulin secretion induced by SZ0232 only occurred in response to high-glucose stimulation in isolated islets, while having no effect on basal insulin secretion.

SZ0232 also exhibited a protective effect on the development of diabetes with better glucose tolerance and β-cell function compared to placebo treatment being noted in vivo.

SZ0232 protects against β-cell dysfunction and diabetes, similar to mPGES-2 deletion.

References

Dandan Zhong, et al. *Nat Metab.* 2022 Feb;4(2):269-283.

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

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