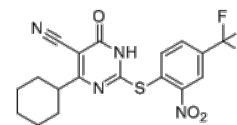


Product Name : RH01386
Cat. No. : PC-62381
CAS No. : 301177-36-6
Molecular Formula : C₁₈H₁₅F₃N₄O₃S
Molecular Weight : 424.398
Target : Amyloids
Solubility : 10 mM in DMSO



Biological Activity

RH01386 (ZPD-2) is a small molecule that protect pancreatic β cells against endoplasmic reticulum stress-induced cell death, also is a small molecule inhibitor of **α -Synuclein (α -Syn)** aggregation, inhibits the aggregation of wild-type α -Syn and the A30P and H50Q familial variants in vitro.

RH01386 (ZPD-2) increases the survival of human primary β cells and rodent β cell lines subjected to ER stressors including palmitate; also restores ER stress-impaired glucose-stimulated insulin secretion responses.

ZPD-2 inhibits the aggregation of wild-type (WT) α -Syn, the A30P and H50Q familial mutants, being active against the seeded polymerization of different α -Syn strains.

ZPD-2 prevents the spreading of α -Syn seeds in protein misfolding cyclic amplification assays.

ZPD-2 is active against different α -Syn strains and blocks their seeded polymerization.

ZPD-2 reduces the number of α -Syn inclusions and decreases synuclein-induced DA neurons degeneration in two different PD *Caenorhabditis elegans* models that express α -Syn either in muscle or in dopaminergic (DA) neurons.

References

- Tran K, et al. *ACS Chem Biol.* 2014 Dec 19;9(12):2796-806.
- Pena-Diaz S., et al. *Front. Mol. Neurosci.* 2019;12:306.

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

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