

ZP3022

Chemical Properties

CAS No. : 1345835-12-2

Formula:

Molecular Weight:

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.

Biological Description

Description	ZP3022 is a dual agonist targeting the glucagon-like peptide 1 receptor (GLP-1R) and cholecystokinin 2 (CCK2) receptor. It selectively enhances cAMP accumulation or ERK phosphorylation in HEK293 cells with GLP-1R or CCK2 receptor expression, compared to ERK phosphorylation in cells with the CCK1 receptor (EC50s: 0.02, 10.3, and >1,000 nM for human receptors, respectively). At 40 nM, ZP3022 promotes proliferation of rat neonatal β -cells in vitro. It also boosts glucose-induced insulin secretion (GSIS) in rat pancreatic islets at 10 and 100 nM concentrations and decreases body weight in rats at 40 nmol/kg doses twice daily. Administered at 100 nmol/kg daily, ZP3022 enhances β -cell and total pancreatic mass and improves glucose tolerance in db/db mice, while reducing food intake but not body weight in these mice.
Targets(IC50)	Others

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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