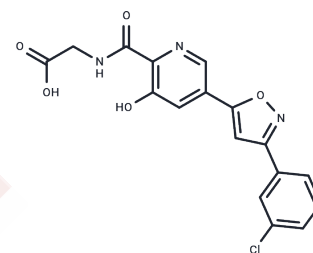


ZG-2291

Chemical Properties

CAS No. : 2962103-40-6
 Formula: C₁₇H₁₂ClN₃O₅
 Molecular Weight: 373.75
 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	ZG-2291 is a selective inhibitor targeting FIH (hypoxia-inducible factor inhibitor) with oral activity. It selectively inhibits FIH by binding to it and inducing a conformational flip in a catalytically crucial tyrosine, without affecting other 2OG oxidases of the JmjC subfamily. ZG-2291 promotes thermogenesis and ameliorates obesity symptoms and metabolic dysfunctions in ob/ob mice. This compound holds promise for research in the field of obesity-related diseases.
In vitro	ZG-2291 (5 or 20 μM, 48 hours) acts as an active cell-penetrating FIH inhibitor in Hep3B cells. Additionally, ZG-2291 enhances thermogenesis and improves lipid accumulation in 3T3-L1 derived adipocytes.
In vivo	Administered every other day for 30 days at a dosage of 10 mg/kg via intraperitoneal injection, ZG-2291 effectively combats obesity symptoms in ob/ob mice and significantly ameliorates associated metabolic dysfunctions.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.6756 mL	13.3779 mL	26.7559 mL
5 mM	0.5351 mL	2.6756 mL	5.3512 mL
10 mM	0.2676 mL	1.3378 mL	2.6756 mL
50 mM	0.0535 mL	0.2676 mL	0.5351 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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