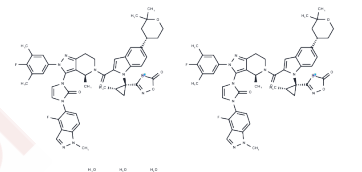


Orforglipron hemicalcium hydrate

Chemical Properties

CAS No. :	3008544-96-2
Formula:	C ₄₈ H ₄₈ F ₂ N ₁₀ O ₅ .1/2Ca.H ₂ O
Molecular Weight:	921.02
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	Orforglipron hemicalcium hydrate (LY3502970 hemicalcium hydrate; GLP-1 receptor agonist 1 hemicalcium hydrate) represents the hemicalcium hydrate form of the calcium salt of Orforglipron, an orally active agonist targeting the Glucagon-like peptide-1 receptor (GLP-1R). This compound has demonstrated efficacy in mitigating type 2 diabetes [1].
Targets(IC50)	Glucagon Receptor
In vivo	Orforglipron hemicalcium hydrate effectively inhibits food intake in cynomolgus monkeys, promotes insulin secretion, and reduces blood glucose levels when administered in a dose-dependent manner. In these models, doses of 0.05-1.35 mg/kg achieved peak plasma concentration (C max) approximately 2 hours post-administration, showing near-proportional increases in plasma exposure with dose. Pharmacokinetic analysis details the absorption process through the gastrointestinal tract, indicating dose-dependent characteristics. The compound was continuously administered intravenously for 30 minutes or via gavage for 5 days at specific concentrations, resulting in improved metabolic outcomes.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.0858 mL	5.4288 mL	10.8575 mL
5 mM	0.2172 mL	1.0858 mL	2.1715 mL
10 mM	0.1086 mL	0.5429 mL	1.0858 mL
50 mM	0.0217 mL	0.1086 mL	0.2172 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

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