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Product Data Sheet

0.5 Ca H₂O

Orforglipron hemicalcium hydrate

Cat. No.:	HY-112185A	
CAS No.:	3008544-96-2	ot
Molecular Formula:	$C_{48}H_{48}F_2N_{10}O_5.1/2Ca.H_2O$	
Molecular Weight:	921.02	
Target:	GCGR	
Pathway:	GPCR/G Protein	
Storage:	4°C, sealed storage, away from moisture	
	* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)	

SOLVENT & SOLUBILITY

	Solvent Mass Concentration	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	1.0858 mL	5.4288 mL	10.8575 mL
Stock Solution.	5 mM	0.2172 mL	1.0858 mL	2.1715 mL
	10 mM	0.1086 mL	0.5429 mL	1.0858 mL

DIOLOGICAL ACTIV			
Description	Orforglipron hemicalcium hydrate (LY3502970 hemicalcium hydrate; GLP-1 receptor agonist 1 hemicalcium hydrate) is the calcium salt hydrate form of Orforglipron (HY-112185). Orforglipron is an orally active agonist for Glucagon-like peptide-1 receptor (GLP-1R), which exhibits potency in ameliorating the type 2 diabete ^[1] .		
In Vivo	Orforglipron hemicalcium hydrate (0.94-4.8 nM in plasma concentration, i.v., or 0.05-0.1 mg/mL, i.g. for 5 days) suppresses food intake in a dose-dependent manner, promotes insulin secretion and blood glucose reduction in cynomolgus monkey model ^[1] . Orforglipron hemicalcium hydrate (0.05-1.35 mg/kg, i.g.) reaches C _{max} 2 hours after administration at all doses, exhibits proportional ratio of increase in plasma drug exposure to dose increase, indicates a dose-dependent absorption in the gastrointestinal tract ^[1] .		
	Pharmacokinetic Analysis of Orforglipron hemicalcium hydrate in cynomolgus monkey ^[1]		
	route Dose (mg/kg) T _{max} (h) C _{max} (ng/mL) AUC _{0-24h} (ng·h/mL)		

i.g.	0.05	2.0	4.78	23.7	
i.g.	0.15	2.0	20.7	135	
i.g.	0.45	2.0	32.0	208	
i.g.	1.35	2.0	148	1040	

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	cynomolgus monkey model ^[1]
Dosage:	0.9-4.8 nM; or 0.05-0.1 mg/mL
Administration:	continuous i.v. administration for 30 minutes until a plasma concentration of 0.9-4.8 nM at steady state; i.g. for 5 days with dose of 0.05-0.1 mg/mL
Result:	Increased insulin secretion and decreased plasma-glucose. Suppressed food intake in a dose-dependent manner.

REFERENCES

[1]. Pyrazolopyridine derivative having glp-1 receptor agonist effect. WO2018056453A1

Caution: Product has not been fully validated for medical applications. For research use only.

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