

Produktinformation



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Diagnostik & molekulare Diagnostik



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Data Sheet (Cat.No.T6876)



Liraglutide

Chemical Properties

CAS No.: 204656-20-2

Formula: C172H265N43O51

Molecular Weight: 3751.25

Appearance: no data available

Storage: keep away from moisture

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

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Biological Description

Description	Liraglutide (Liraglutida) is a synthetic analog of glucagon-like peptide-1 (GLP-1), an agonist of the GLP-1 receptor. Liraglutide can be used to treat type 2 diabetes and chronic obesity.				
Targets(IC50)	Glucagon Receptor				
In vitro	METHODS: Human hepatocellular carcinoma cells HepG2 were treated with Lirage (5-20 μM) for 48 h. Cell viability was measured by direct cell counting. RESULTS: Incubation for 48 h with 15 μM and 20 μM of Liraglutide resulted in a significant decrease in cell proliferation compared to the control. [1] METHODS: Pancreatic βTC-6 cells were treated with Liraglutide (1 nM) for 3-30 m the expression levels of target proteins were detected by Western Blot. RESULTS: Treatment of cells with Liraglutide resulted in an increase in phosphory of the pro-survival kinase AKT at Ser47 3 over time compared to untreated cells.				
In vivo	METHODS : To investigate the effects on diabetes, Liraglutide (100 μ g/kg) was administered intraperitoneally once daily for two weeks to a BKS mouse model of ty diabetes. RESULTS : Liraglutide restored islet size, reduced islet β-cell apoptosis, and improve nephrin expression, a protein involved in β-cell survival signaling.Liraglutide protection of the protection				
Kinase Assay	Assay of ProRS activity: The prolyl tRNA synthetase domain of human EPRS (ProRS) is expressed in E.coli with a 6-his tag and purified. Enzymatic activity is assayed using incorporation of 3H Pro into the tRNA fraction essentially, except that the charged tRNA fraction is isolated by rapid batchwise binding to Mono Q sepharose and quantitated by liquid scintillation counting. For all kinetic assays, the concentration of active enzyme in the reaction is 40 nM. Similar inhibition by HF is seen using the human ProRS domain purified from bacteria and full length EPRS purified from rat liver.				
Cell Research					

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(Only for Reference)

Solubility Information

Solubility	H2O: 5 mg/mL (1.33 mM),when pH is adjusted to 8 with NaOH. Sonication is		
	recommended.		
	(< 1 mg/ml refers to the product slightly soluble or insoluble)		

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.2666 mL	1.3329 mL	2.6658 mL
5 mM	0.0533 mL	0.2666 mL	0.5332 mL
10 mM	0.0267 mL	0.1333 mL	0.2666 mL
50 mM	0.0053 mL	0.0267 mL	0.0533 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.

Reference

Ni X, Feng X, Wang Z, et al. Empagliflozin and liraglutide ameliorate HFpEF in mice via augmenting the Erbb4 signaling pathway. Acta Pharmacologica Sinica. 2024: 1-14.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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