Data Sheet (Cat.No.TP1141)

TargetMol

GLP-1(7-36), amide acetate

Chemical Properties

CAS No. : 1119517-19-9

Formula: C151H230N40O47

Molecular Weight: 3357.68

Appearance: no data available

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

Biological Description

Description	GLP-1(7-36), amide acetate is a derivative of GLP-1 peptide (glucagon-like peptide-1). GLP-1(7-36), amide is able to activate the GLP-1 receptor, which has the ability to promote insulin secretion and inhibit glucagon secretion, with the potential to treat type 2 diabetes mellitus and obesity.
Targets(IC50)	Glucagon Receptor
In vitro	Cells exposed to phorbol 12-myristate 13-acetate for 2 hours exhibited significantly enhanced GLP-1(7-36) levels compared to untreated controls. Similarly, glucose exposure augmented GLP-1 secretion in a dose-responsive manner. Fatty acids, including palmitic, oleic, linoleic, and linolenic acids, also elevated GLP-1 secretion dose-dependently, with unsaturated fatty acids (oleic, linoleic, and linolenic acids) proving more potent than saturated palmitic acid. Furthermore, treatment with CPE on NCI-H716 cells led to a dose-dependent increase in GLP-1 levels, with a notable 37% rise at 0.1% CPE concentration[1].
In vivo	Gastrointestinal administration of glucose increased active GLP-1(7-36), amide acetate levels in portal vein blood 10 minutes later, followed by a significant decrease in active GLP-1 levels 30 minutes later. TO active GLP-1 levels also increased 10 minutes after gastric administration, then decreased to basal levels at 60 minutes. [1]

Solubility Information

Solubility	H2O: 80.00 mg/mL (23.83 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.2978 mL	1.4891 mL	2.9782 mL
5 mM	0.0596 mL	0.2978 mL	0.5956 mL
10 mM	0.0298 mL	0.1489 mL	0.2978 mL
50 mM	0.006 mL	0.0298 mL	0.0596 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

Fujii Y et al. Ingestion of coffee polyphenols increases postprandial release of the active glucagon-like peptide-1 (GLP-1(7-36)) amide in C57BL/6J mice. J Nutr Sci. 2015 Mar 3