

# Acylated Glucagon-like Peptide-1 Receptor Agonist

Catalog No.: YR0141

## Basic Information

### Molecular Weight

3.8 kDa

### Endotoxin

<1EU/mg (<0.001EU/μg) Determined by LAL gel clotting assay

### Sterility

0.2 μm filtration

### Aggregation

<5% Determined by SECP

### Purity

>95% Determined by SDS-PAGE

## Background

Liraglutide, a recombinant peptide which presents 97% homology with human glucagon-like peptide-1 (GLP-1), differing primarily by substituting arginine for lysine at position 34. Liraglutide is made by attaching a C-16 fatty acid (palmitic acid) with a glutamic acid spacer on the remaining lysine residue at position 26 of the peptide precursor. Liraglutide is resistant to the dipeptidylpeptidase-4 enzyme which degrades the natural hormone. As a glucagon-like peptide-1 receptor agonist (GLP-1 receptor agonist) also known as incretin mimetics, Liraglutide activates the GLP-1 receptor and exerts an incretin mimetic effect during at least 24 hours after a single subcutaneous injection. Besides a glucose-dependent stimulatory effect of insulin secretion, liraglutide inhibits glucagon secretion and retards gastric emptying. Liraglutide is an anti-diabetic medication used to treat type 2 diabetes, obesity, and chronic weight management. Liraglutide is given by injection under the skin. Liraglutide works by increasing insulin release from the pancreas and decreases excessive glucagon release.

## Reported Applications

ELISA, neutralization, functional assays such as bioanalytical PK and ADA assays, and those assays for studying biological pathways

## Immunogen Information

### Clone

Liraglutide Biosimilar

### Isotype

### Immunogen

### Recommended Isotype Control(s)

### Recommended Dilution Buffer

1×PBS pH 7.0

## Contact

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## Product Information

### Production

Purified from cell culture supernatant in an animal-free facility

### Purification

Protein A or G purification

### Storage

2 - 8°C for up to 4 weeks and -80°C for long term storage (Avoid repeated freezing and thawing)