

# Acylated Glucagon-like Peptide-1 Receptor Agonist

Catalog No.: YR0142

## Basic Information

### Molecular Weight

4.1 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

Semaglutide, a recombinant peptide which presents 94% sequence homology to the human glucagon-like peptide-1 (GLP-1), differing primarily by two amino-acid substitutions at positions 8 and 34, where alanine and lysine are replaced by 2-aminoisobutyric acid and arginine, respectively. Liraglutide is made by attaching a C-18 fatty acid (stearic diacid) with a glutamic acid spacer on the remaining lysine residue at position 26 of the peptide precursor. Semaglutide is resistant to the dipeptidylpeptidase-4 enzyme which degrades the natural hormone. As a GLP-1 receptor agonist, Semaglutide mimics the action of the human incretin glucagon-like peptide-1 (GLP-1), thereby increasing insulin secretion and increasing blood sugar disposal and improving glycemic control. Semaglutide is an anti-diabetic medication used to treat type 2 diabetes, obesity, and chronic weight management.

## Reported Applications

ELISA, functional assays such as bioanalytical PK and ADA assays, and those assays for studying biological pathways affected by semaglutide.

## Immunogen Information

### Clone

Semaglutide Biosimilar

### Isotype

### Immunogen

### Recommended Isotype Control(s)

### Recommended Dilution Buffer

lyophilized from 0.2 μM filtered solution

## 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

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