



Semaglutide (API)

Product Number: RPJ05

Shipping and Storage

Store at -15°C or below, away from light and sealed.

Component

Component	RPJ05-10g	RPJ05-100g	RPJ05-500g
Semaglutide (API)	10g	100g	500g

Description

Semaglutide (CAS 910463-68-2) is a glucagon-like peptide-1 (GLP-1) analog produced through biotechnological fermentation using genetic recombinant technology. It stimulates insulin secretion in a glucose-dependent manner by activating GLP-1 receptors, and is used for blood glucose control in adult patients with type 2 diabetes. The long-acting mechanism of semaglutide is based on structural modifications, where an 18-carbon fatty acid side chain is attached to the 26th lysine residue of the peptide. This modification increases the molecular weight of semaglutide and enhances its affinity for albumin by 5-6 times, thereby preventing rapid renal clearance and metabolic degradation, thereby extending its half-life in the body.

Application

1. Inhibiting glycolysis in tumor cells during cell culture to disrupt tumor growth signaling pathways
2. Treatment of Type 1 diabetes
3. Weight management
4. Non-alcoholic fatty liver disease (NAFLD), neurological disorders

Feature

1. Produced using biotechnology, the quality is equivalent to that of the original research product.
2. Compliant with GMP standards.
3. Complete quality documents: Relevant regulatory support documents can be provided according to customer requirements.

Specification

Project	Feature
Appearance	White or off white powder
Content	95.0%~105.0%
Endotoxin	<10 EU/mg
Host protein residue	NMT 10ng/mg
Exogenous DNA residue	NMT 10ng/dose
Polymer protein	NMT 0.3%
Purity	≥98.0%

Note

1. This product should not be stored in high-temperature environments for long periods.
2. Contamination should be avoided during the use of this product.