

Semaglutide

Peptides & Peptide Materials · Issued 2026-10-10

1. IDENTIFICATION

Product name	Semaglutide
Synonyms	Semaglutide (INN), NN9535, GLP-1 analogue peptide
CAS number	910463-68-2
Molecular formula	C187H291N45O59
Molecular weight	4113.58 g/mol (reference literature value)
Product type	Synthetic peptide (GLP-1 receptor agonist analogue)
Catalog code	RCB-0002

2. DESCRIPTION

Semaglutide is a synthetic acylated analogue of human glucagon-like peptide-1 (GLP-1). Public reference sources describe a 31-amino-acid backbone with an aminoisobutyric acid substitution at position 8 and a C18 fatty diacid side chain attached through a gamma-glutamyl/AEEA linker, which is associated with albumin binding and an extended plasma half-life. In many jurisdictions semaglutide is a prescription pharmaceutical substance; presence of this identity record does not indicate approval, availability, or eligibility for supply. Purity, impurity profile, peptide content, water content, residual solvents, endotoxin and other quality attributes are batch-specific and are only meaningful when supported by a batch Certificate of Analysis issued against a defined specification. Red Chem Biotech has not published verified analytical values for this record.

3. TYPICAL PROPERTIES

Appearance	Stated on the Certificate of Analysis.
Purity (stated minimum)	>=99.0% (HPLC)

4. TEST METHODS

Appearance (Visual)	Conforms
Solubility (Visual (stated solvent and concentration))	Conforms
Identity (molecular mass) (ESI-MS)	Conforms
Purity (RP-HPLC (area %))	>= 99.0 %
Largest single impurity (RP-HPLC (area %))	Per specification
Peptide content (Nitrogen analysis or amino acid analysis)	Per specification
Water content (Karl Fischer)	Per specification
Counter-ion (acetate / TFA) (Ion chromatography or HPLC)	Per specification
Residual solvents (GC headspace (ICH Q3C))	Conforms: Meets ICH Q3C limits
Bacterial endotoxins (LAL (Ph. Eur. 2.6.14 / USP <85>))	Per specification

Amino acid analysis (AAA after hydrolysis) Report result

5. STORAGE, PACKAGING AND PRICE

Price	Quoted on request — from 1 kg; volume pricing on your quotation
Storage	Stated on the Safety Data Sheet and Certificate of Analysis supplied with each batch.
Packaging	Sealed, labelled containers suited to the order quantity; confirmed on your quotation.

6. REGULATORY INFORMATION

Classification	Supplied with buyer declaration
Status	Prescription / Jurisdiction Dependent

7. DOCUMENTATION

Released with your enquiry	Product specification, Certificate of Analysis (COA), Safety Data Sheet (SDS), Analytical data (chromatograms / spectra), Method of analysis (MOA), Residual solvents statement (ICH Q3C), TSE/BSE statement, Stability and storage statement, End-use / end-user declaration, GMP certificate / manufacturing licence — request them online
Shipped with each order	Batch Certificate of Analysis, packing list, commercial invoice