

Tirzepatide

Peptides & Peptide Materials · Issued 2026-10-10

1. IDENTIFICATION

Product name	Tirzepatide
Synonyms	Tirzepatide (INN), LY3298176, GIP/GLP-1 dual agonist peptide
CAS number	2023788-19-2
Molecular formula	C225H348N48O68
Molecular weight	4813.45 g/mol (reference literature value)
Product type	Synthetic peptide (dual GIP/GLP-1 receptor agonist analogue)
Catalog code	RCB-0024

2. DESCRIPTION

Tirzepatide is a synthetic 39-amino-acid peptide described in public reference sources as a dual agonist at the glucose-dependent insulinotropic polypeptide (GIP) and glucagon-like peptide-1 (GLP-1) receptors, incorporating non-natural amino acid residues and a C20 fatty diacid moiety associated with prolonged circulation. In many jurisdictions tirzepatide is a prescription pharmaceutical substance and supply is restricted to authorised entities. This record documents chemical identity only. No purity claim, impurity profile, peptide content, sterility, endotoxin result, or documentation set is asserted; those attributes are batch-specific and require a Certificate of Analysis issued against an agreed specification.

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