PRODUCT SPECIFICATION

Tirzepatide 20 mg

LY3298176 — synthetic dual agonist at the GIP and GLP-1 receptors, supplied as a lyophilized research compound.

CAS NUMBER	MOLECULAR WEIGHT	PURITY	PHYSICAL FORM
2023788-19-2	4,813.45 g/mol	≥ 99% (HPLC-MS)	Lyophilized powder

1 PRODUCT IDENTIFICATION

Product Name	Tirzepatide 20 mg
Product Code	PCR-TIRZ-20
Compound Type	Synthetic dual receptor agonist — GIP and GLP-1 receptor pathways
Synonyms / Other Names	Tirzepatide; LY3298176; LY-3298176
Amino Acid Count	39
Amino Acid Sequence	Y-{Aib}-EGTFTSDYSI-{Aib}-LDKIAQ-{Lys(C20 diacid via γGlu-AEEA linker)}-AFVQWLIAGGPSSGAPPPS-NH_2
Vial Contents	20 mg lyophilized peptide, single vial
Research Category	Metabolic research peptide

2 CHEMICAL AND PHYSICAL PROPERTIES

CAS Number	2023788-19-2
PubChem CID	156588324
Molecular Formula	$C_{225}H_{348}N_{48}O_{68}$
Molecular Weight	4,813.45 g/mol (average); 4,810.52 (monoisotopic)
Structural Notes	Modified GIP backbone with two aminoisobutyric acid residues (Aib2, Aib13); C20 eicosanedioic diacid conjugated at Lys20; C-terminal amide
Appearance	White to off-white lyophilized powder
Physical State	Lyophilized solid
Purity	≥ 99% by HPLC-MS

RESEARCH USE ONLY — NOT FOR HUMAN OR VETERINARY USE. This document is not a Certificate of Analysis; batch-specific data is issued per lot.

3 SOLUBILITY AND RECONSTITUTION

Solubility	Soluble in bacteriostatic water
Recommended Diluent	Bacteriostatic water — supplied complimentary with every peptide order
Solution Handling	Prepare fresh, keep cold, and avoid repeated freeze-thaw cycles

Note: as a lipid-conjugated peptide, the reconstituted solution may appear slightly turbid. This is expected and is not an indication of degradation.

4 STORAGE AND STABILITY

Storage — Sealed Vial	Freeze at ≤ −20 °C, sealed, away from light and moisture
Shelf Life — Sealed	Approximately 24 months under recommended storage conditions
Storage — After Reconstitution	Refrigerate at 2–8 °C
In-Use Period	28–30 days after reconstitution
Conditions to Avoid	Heat, direct light, moisture, and repeated freeze-thaw cycles

5 QUALITY ASSURANCE AND DOCUMENTATION

Analytical Method	High-performance liquid chromatography with mass spectrometry (HPLC-MS)
Batch Testing	Independent third-party analysis for identity, purity, and contaminants
Certificate of Analysis	Issued per batch — available at peptidescostarica.net/lab-tests-coa-results/
Batch / Lot Number	Refer to the vial label and the accompanying Certificate of Analysis

6 INTENDED USE AND REGULATORY STATUS

Intended Use	Research Use Only (RUO) — laboratory, analytical, and scientific applications
Uses Advised Against	Not for human or veterinary use. Not a drug, food, cosmetic, dietary supplement, or household product. Not for diagnostic or therapeutic use.
Regulatory Status	The tirzepatide molecule holds FDA approval as a finished pharmaceutical under Eli Lilly's brands Mounjaro (2022) and Zepbound (2023). This product is neither of those medicines: it is an unlicensed research compound and is not approved for the prevention, diagnosis, treatment, or cure of any disease.
Distribution	Supplied within Costa Rica

SUPPLIER
Peptides Costa Rica
Curridabat, San José 11801
Costa Rica

CONTACT
info@peptidescostarica.net
CR +506 8404-6973
US +1 (831) 471-5559

DOCUMENTATION
peptidescostarica.net
COA database:
/lab-tests-coa-results/

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