PRODUCT SPECIFICATION

Tirzepatide 40 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 40 mg
Product Code	PCR-TIRZ-40
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	40 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

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

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