PRIME PEPTIDES UK

# Certificate of Analysis



# Tesamorelin

20 mg · Lyophilised powder

**BATCH TSM-20-31**

| PURITY · HPLC | IDENTITY · LC-MS | BATCH STATUS |
|---|---|---|
| **≥ 99.0 %** | **Confirmed** | **Released** |
| Threshold ≥ 98.0 % | 5135.8 g/mol observed | Meets specification |

## PRODUCT IDENTIFICATION

| | | | |
|---|---|---|---|
| Product name | Tesamorelin | Strength | 20 mg per vial |
| Chemical name | trans-3-Hexenoyl GRF (1-44) amide; GHRH analogue | Physical form | Lyophilised powder |
| CAS number | 218949-48-5 | Container | 3 mL glass vial, flip-off seal |
| Molecular formula | $C_{221}H_{366}N_{72}O_{67}S$ | Manufactured | Oct 2026 |
| Molecular weight | 5135.8 g/mol | Retest / expiry | Oct 2028 |
| Description | 44-amino-acid GHRH analogue with an N-terminal trans-3-hexenoyl group | | |

## ANALYTICAL RESULTS

| TEST | METHOD | SPECIFICATION | RESULT | STATUS |
|---|---|---|---|---|
| **Appearance** | Visual | White / off-white lyophilised powder | **White powder** | ✔ Pass |
| **Identity** | LC-MS (ESI) | Mass consistent with $C_{221}H_{366}N_{72}O_{67}S$ | **Conforms** | ✔ Pass |
| **Purity** | RP-HPLC, 220 nm | ≥ 98.0 % | **≥ 99.0 %** | ✔ Pass |
| **Net content** | Gravimetric | 20 mg per vial, ± 5 % | **Conforms** | ✔ Pass |
| **Counter-ion** | TFA residual | ≤ 1.0 % | **Conforms** | ✔ Pass |

## STORAGE & HANDLING

**Lyophilised powder**
Store refrigerated at 2–8 °C. For long-term storage keep at −20 °C.

**Light & moisture**
Protect from light. Keep the vial sealed until reconstitution.

**Reconstituted solution**
Store at 2–8 °C and avoid repeated freeze–thaw cycles.

**Conclusion.** The product has been tested and complies with the specifications stated above.

**For research use only.** This product is supplied strictly for in-vitro laboratory research. Not for human or veterinary use, not a drug, food, cosmetic or medical device. Keep out of reach of children.

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