

HGH 191AA

Recombinant human growth hormone, 191 amino acids, released on potency

BATCH

IP-GH-261001

This is the code printed on your vial.

APPLICABLE STRENGTHS

- 10 IU
- 15 IU
- 24 IU

99.33%

SEC-HPLC
Specification ≥ 99.0%

IDENTITY Confirmed Mass spectrometry	ENDOTOXIN < 0.1 EU/mg Kinetic chromogenic LAL
STERILITY No growth Membrane filtration	ANALYSED 2 October 2026 Batch made 1 October 2026

Full analytical results

TESTS AND SPECIFICATIONS

Appearance

Visual inspection

SPECIFICATION White lyophilised powder or cake

RESULT **Conforms**

STATUS **PASS**

Purity

SEC-HPLC, monomer, 280 nm

SPECIFICATION $\geq 99.0\%$

RESULT **99.33%**

STATUS **PASS**

Identity

ESI-MS, intact mass

SPECIFICATION $[M+22H]^{22+} = 1006.69 \pm 0.50$

RESULT **1006.87**

STATUS **PASS**

Aggregate content

SEC-HPLC, high molecular weight species

SPECIFICATION $\leq 1.0\%$

RESULT **0.16%**

STATUS **PASS**

Protein content

UV absorbance at 280 nm

SPECIFICATION $\geq 95.0\%$ of label claim

RESULT **98.6%**

STATUS **PASS**

Potency

Bioassay against the international standard

SPECIFICATION ≥ 2.5 IU per mg

RESULT **2.85 IU per mg**

STATUS **PASS**

Host cell protein

ELISA

SPECIFICATION ≤ 100 ppm

RESULT **< 35 ppm**

STATUS **PASS**

Residual host DNA

qPCR

SPECIFICATION ≤ 10 ng per vial

RESULT < 2 ng per vial

STATUS PASS

Residual moisture

Karl Fischer titration

SPECIFICATION ≤ 5.0%

RESULT 2.40%

STATUS PASS

Bacterial endotoxins

Kinetic chromogenic LAL

SPECIFICATION < 1.0 EU/mg

RESULT < 0.1 EU/mg

STATUS PASS

Sterility

Membrane filtration (USP <71>)

SPECIFICATION No growth

RESULT No growth

STATUS PASS

Elemental impurities

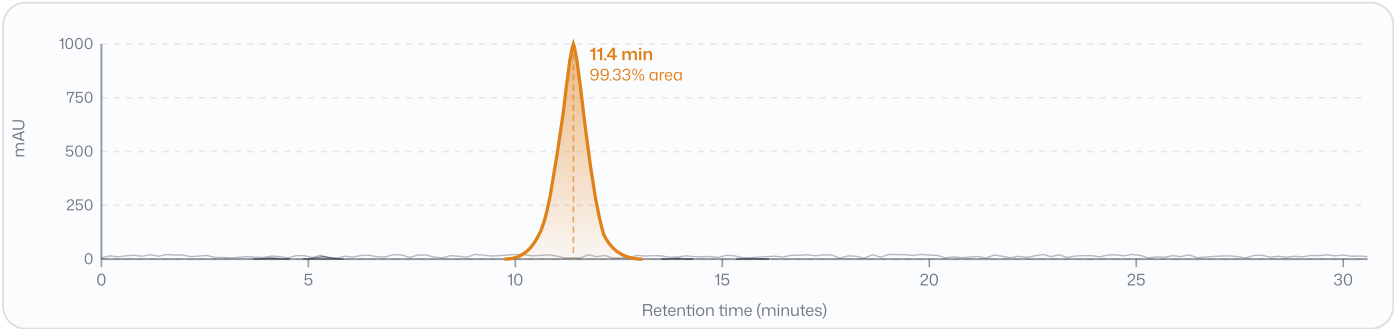
ICP-MS (USP <232> and <233>)

SPECIFICATION Pb ≤ 5, Cd ≤ 2, As ≤ 15, Hg ≤ 3 µg/day (ICH Q3D, parenteral)

RESULT Conforms

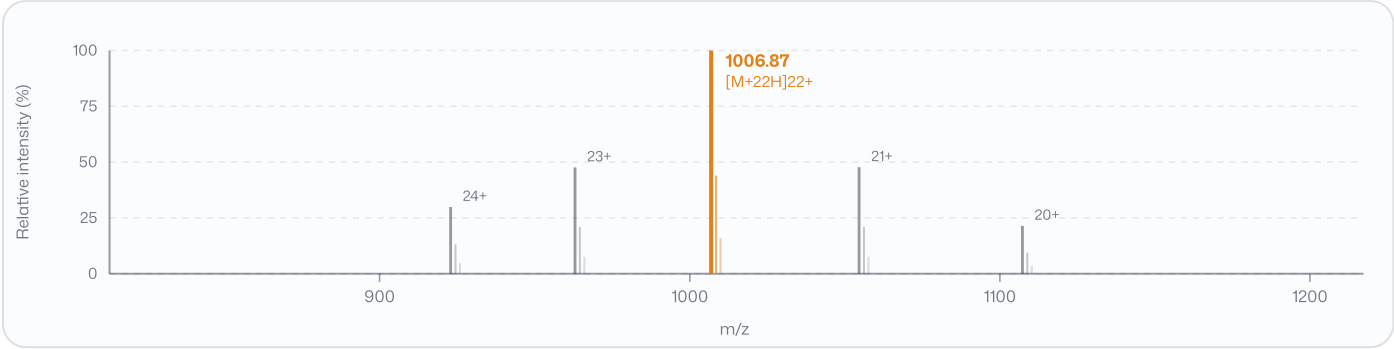
STATUS PASS

CHROMATOGRAM



Size-exclusion trace for this batch. One dominant peak at 11.4 minutes, 99.33% of the total peak area, largest single impurity 0.16%.

MASS SPECTRUM



Electrospray ionisation. Expected 1006.69, observed 1006.87, a difference of 0.18 m/z at charge state 22. The neighbouring peaks are the same molecule at the charge states either side of it.

REFERENCE DATA

ALSO KNOWN AS	CAS NUMBER
Somatropin, rhGH	12629-01-5
MOLECULAR FORMULA	MOLECULAR WEIGHT
C ₉₉₀ H ₁₅₂₈ N ₂₆₂ O ₃₀₀ S ₇	22125.07 g/mol
SEQUENCE	MODIFICATIONS
FPTIPLSRFLFDNAMLRAHRLHQLAFDTYQEFEEAYIPKEQKYSFL QNPQTSLCFSES IPTPSNREETQQKSNLELLRISLLLIQSWLEPV QFLRSVFANSLVYGASDSNVYDLLKDLEEGIQTLMGRL EDGSPRT GQIFKQTYSKFDTNSHNDDALLKNYGLLYCFRKDMDKVETFLRIV QCRSVEGSCGF	Two disulfide bonds, Cys53 to Cys165 and Cys182 to Cys189. Not glycosylated, and with no extra methionine at the front.

Public reference values for the compound, not measurements on this batch. The batch measurements are in the table above.

STORAGE AND HANDLING

UNOPENED	LONG TERM
2 to 8 °C, away from light	-20 °C, lyophilised, for the stated shelf life
RECONSTITUTED	IN TRANSIT
2 to 8 °C, use within 2 weeks; do not freeze and thaw	Stable at ambient temperature for up to 14 days
RECONSTITUTE WITH	
Bacteriostatic water	

THE VIAL THIS COVERS



The label on your vial carries the same batch code as this certificate, **IP-GH-261001**, and the QR goes to the results for it. If the code on the vial is not this one, the certificate for it is on this page under earlier batches.

Sticker shown at its printed size, 40 by 20 mm.
Cap colour may vary by batch.

RELEASE

BATCH DATE

1 October 2026

ANALYSIS DATE

2 October 2026

ISSUE DATE

3 October 2026

BEST BEFORE

October 2028

RELEASED BY

Quality review, Indigo Peptides

DOCUMENT

Valid only in its original, unmodified form

Results are taken from the batch testing documentation for this exact batch, supplied with the finished vials and held on file by us. Every value above is for the batch named on this certificate and for no other.

HOLDING AN OLDER VIAL?

IP-GH-260912

PURITY

99.32%

ANALYSED

13 September 2026

If the code on your vial is one of these, it is an earlier batch of ours and these are its results. A result we have published is never removed and never recalculated.