

Somatropin (rhGH)

Pharmaceutical Ingredients · Issued 2026-10-10

1. IDENTIFICATION

Product name	Somatropin (rhGH)
Synonyms	Somatropin (INN), Recombinant human growth hormone, rhGH, hGH (191 aa)
CAS number	12629-01-5
Molecular formula	C990H1528N262O300S7
Molecular weight	Approximately 22,125 Da (reference literature value)
Product type	Recombinant protein (human growth hormone, 191 amino acids)
Catalog code	RCB-0054

2. DESCRIPTION

Somatropin is recombinant human growth hormone: a single-chain 191-amino-acid polypeptide with two disulfide bridges, produced by recombinant expression and described in public reference sources as sequence-identical to pituitary-derived human growth hormone. As a biological substance, identity and quality assessment depends on far more than a nominal purity figure: relevant attributes include primary structure confirmation, higher-order structure, charged and size variants, host-cell protein and host-cell DNA residuals, biological potency in international units, endotoxin, sterility, and container-closure integrity, each defined by a compendial or agreed specification. In most jurisdictions somatropin is a prescription biological product whose manufacture, import and supply require specific authorisation. This record documents identity only. Red Chem Biotech publishes no potency, purity, sterility, or batch documentation for it.

3. TYPICAL PROPERTIES

Appearance	Stated on the Certificate of Analysis.
Purity (stated minimum)	>=99.0% (HPLC)

4. TEST METHODS

Appearance (Visual)	Conforms
Identity (Peptide mapping / intact mass)	Conforms
Purity (monomer) (SEC-HPLC)	>= 99.0 %
Related proteins (RP-HPLC)	Per specification
Potency (Bioassay or validated physicochemical assay)	Per specification
Protein content (UV A280 or HPLC)	Per specification
Host cell protein (ELISA)	Per specification
Bacterial endotoxins (LAL)	Per specification
Water content (Karl Fischer)	Per specification
Bioburden (Ph. Eur. 2.6.12)	Per specification

5. STORAGE, PACKAGING AND PRICE

Price	Quoted on request — from 1 kg; volume pricing on your quotation
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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), TSE/BSE statement, Stability and storage statement, GMP certificate / manufacturing licence, Quality agreement, End-use / end-user declaration — request them online
Shipped with each order	Batch Certificate of Analysis, packing list, commercial invoice