



Recombinant Human Growth Hormone

(rhGH)

Catalog Number: 01-0003

Description	Human Growth Hormone (GH) is a member of a family of growth factors that includes prolactin, placental lactogens, proliferins, and somatolactin. It is synthesized primarily by somatotropes in the anterior pituitary and is stored in secretory granules. The pulsatile release of GH into circulation is regulated by the concerted actions of the hypothalamic hormones-GH-releasing hormone (GHRH) and somatostatin (SST) - as well as by signals from the periphery - ghrelin and leptin. ⁴ The human GH cDNA encodes a 217 amino acid (aa) residue precursor protein with a 26 aa putative signal peptide. By alternative splicing, at least four isoforms of GH have been identified.
Synonyms	Somatotropin, GHN, GH-N, hGH-N, IGHD1B, pituitary growth hormone
AA sequence	FPTIPLSRLFDNAMLRAHRLHQLAFDITYQEFEEAYIPKEQKYSFLQNPQTSLCFSESIPTPSN REETQQKSNLELLRISLLLIQSWLEPVQFLRSVFANSLVYGASDSNVYDLLKDLEEGIQTLMG RLEDGSPRTGQIFKQTYSKFDTNSHNDALLKNYGLLYCFRKDMDKVETFLRIVQCRSVEG SCGF
Source	<i>Escherichia coli</i>
Molecular Weight	Approximately 22.4 kDa, a single non-glycosylated polypeptide chain containing 191 amino acids.
Purity	>98% by SDS-PAGE
Physical Appearance	White lyophilized powder or solution
Formulation	Lyophilized from a 0.2 μ m filtered concentrated solution with 20mM PBS, 1mM EDTA, pH 7.9
Reconstitution	Reconstitute in sterile distilled water containing 0.1% BSA to a concentration of 0.1-1.0mg/ml.
storage	Store at -20 °C after receiving. Upon reconstitution, store at 2-8 °C for up to one month. For maximal stability, aliquot and store at -20 °C. Avoid repeated freeze/ thaw cycles.
PRICE	RMB 1512 /10 μ g; RMB 6048 /50 μ g
Usage	*This product is for research use only.