

# Active Recombinant Human GH1 Protein

**Cat. No.** GH1-277G    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant Human GH1 Protein without tag was expressed in CHO.
<b>Species</b>	Human
<b>Source</b>	CHO
<b>Description</b>	Growth hormone (GH), also known as somatotropin, 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. 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.
<b>Form</b>	Sterile Filtered White lyophilized (freeze-dried) powder.
<b>Bio-activity</b>	ED50 < 0.5 ng/mL, measured in a cell proliferation assay using Nb2-11 cells, corresponding to a specific activity of >2 6 units/mg
<b>Molecular Mass</b>	20-24 kDa, observed by non-reducing SDS-PAGE.
<b>AA Sequence</b>	FPTIPLSRLFDNASLRAHRLHQLAFDITYQEFEEAYIPKEQKYSFLQNPQTSLCFSESIP TPSNREETQQKSNLELLLRISLLLIQSWLEPVQFLRSVFANSLVYGASDSNVYDLLKDL

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EEGIQTLMGRLEDGSPRTGQIFKQTYSKFDTNSHNDDALLKNYGLLYCFRKDMDKV  
ETFLRIVQCRSVEGSCGF

**Endotoxin** < 0.2 EU/μg, determined by LAL method.

**Purity** > 95% as analyzed by SDS-PAGE and HPLC.

**Storage** Lyophilized recombinant Human Growth Hormone (GH) remains stable up to 6 months at -80 centigrade from date of receipt. Upon reconstitution, rhGH should be stable up to 1 week at 4 centigrade or up to 2 months at -20 centigrade.

**Storage Buffer** Lyophilized after extensive dialysis against PBS.

**Reconstitution** Reconstituted in ddH<sub>2</sub>O or PBS at 100 μg/mL.

## GENE INFORMATION

**Gene Name** GH1 growth hormone 1 [ Homo sapiens ]

**Official Symbol** GH1

**Synonyms** GH1; growth hormone 1; somatotropin; GH; GH N; GHN; hGH N; pituitary growth hormone; GH-N; hGH-N; IGHD1B;

**Gene ID** 2688

**mRNA Refseq** NM\_000515

**Protein Refseq** NP\_000506

**MIM** 139250

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