

Active Recombinant Human GH1 Protein

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

SPECIFICATION

Product Overview	Recombinant Human GH1 Protein without tag was expressed in CHO.
Species	Human
Source	CHO
Description	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.
Form	Sterile Filtered White lyophilized (freeze-dried) powder.
Bio-activity	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
Molecular Mass	20-24 kDa, observed by non-reducing SDS-PAGE.
AA Sequence	FPTIPLSRLFDNASLRAHRLHQLAFDTYQEFEEAYIPKEQKYSFLQNPQTSLCFSESIP TPSNREETQQKSNLELLRISLLLIQSWLEPVQFLRSVFANSLVYGASDSNVYDLLKDL

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	EEGIQTLMGRLDGSPRTGQIFKQTYSKFDTNSHNDDALLKNYGLLYCFRKDMDKV 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 ₂ 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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