

# Active Recombinant Human Growth Hormone 1

Cat. No. GH-2744H Lot. No. (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant Human Growth Hormone 1 protein is expressed in <i>Nicotiana benthamiana</i> .
<b>Species</b>	Human
<b>Source</b>	Nicotiana Benthamiana
<b>Description</b>	Human growth hormone (hGH, somatotropin), a protein hormone from the anterior lobe of the pituitary gland, comprises a single polypeptide chain of 191 amino acid residues. The growth hormone amino acid sequence varies considerably between species, and non-primate growth hormones have little activity in man. Its main function is the stimulation of somatic and bone growth, as well as an increase in the size and mass of organs and tissues.
<b>MW</b>	22.9 kDa.
<b>Purity</b>	> 95% by SDS-PAGE gel.
<b>Endotoxin Level</b>	< 0.01 EU/μg protein (LAL method).
<b>Formulation</b>	This product is lyophilized from a solution of Tris 0.05M, pH 7.4, NaCl 0.5M, and Triton X-100 0.1%.
<b>Activity</b>	The biological activity is measured in a cell proliferation assay using the rat lymphoma, Nb2-11 (0.001-0.04 ng/mL).

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**Storage**

Lyophilized GH, although stable at room temperature for 3 weeks, should be stored desiccated below -18° C. Upon reconstitution, HGH should be stored at 4° C between 2-7 days and for future use below -18° C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Repeated freezing and thawing is not Recommended.

## GENE INFORMATION

**Gene Name**

GH1 growth hormone 1 [ Homo sapiens ]

**Synonyms**

GH; GH-N; GHN; hGH-N; Growth hormone; Pituitary growth hormone; growth hormone 1; GH1; IGHD1B; Somatotropin; hGH

**Gene ID**

2688

**mRNA Refseq**

NM\_000515

**Protein Refseq**

NP\_000506

**MIM**

139250

**UniProt ID**

P01241

**Chromosome Location**

17q24.2

**Pathway**

Cytokine-cytokine receptor interaction; Jak-STAT signaling pathway; Neuroactive ligand-receptor interaction

**Function**

growth factor activity; growth hormone activity; growth hormone receptor binding; prolactin receptor binding; protein binding

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