

Active Recombinant Human Growth Hormone 1

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

SPECIFICATION

Product Overview	Recombinant Human Growth Hormone 1 protein is expressed in <i>Nicotiana benthamiana</i> .
Species	Human
Source	Nicotiana Benthamiana
Description	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.
MW	22.9 kDa.
Purity	> 95% by SDS-PAGE gel.
Endotoxin Level	< 0.01 EU/μg protein (LAL method).
Formulation	This product is lyophilized from a solution of Tris 0.05M, pH 7.4, NaCl 0.5M, and Triton X-100 0.1%.
Activity	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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