

## Active Recombinant Human GH1, His-tagged

Cat. No. GH1-9161H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant human GH1 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography.
<b>Species</b>	Human
<b>Source</b>	E.coli
<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. 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>Form</b>	Liquid. In. 88mM mannitol, 5mM phosphate, pH7.4
<b>Bio-activity</b>	The proliferative activity of rhGH was tested in culture using rat Nb2 Lymphoma cells
<b>Molecular Mass</b>	22.2 kDa (192 aa), confirmed by MALDI-TOF
<b>Endotoxin</b>	Less than 0.1 ng/μg (IEU/μg) of recombinant human Growth hormone by the LAL method
<b>Purity</b>	More than 95%, as determined by SDS-PAGE, SEC HPLC, RP HPLCIEF: 5.1
<b>Stability</b>	Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

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**Concentration** 1mg/ml (determined by Bradford assay)

## 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

**UniProt ID** P01241

**Chromosome Location** 17q22-q24

**Pathway** Adipogenesis, organism-specific biosystem; Cytokine Signaling in Immune system, organism-specific biosystem; Cytokine-cytokine receptor interaction, organism-specific biosystem; Cytokine-cytokine receptor interaction, conserved biosystem; Diabetes pathways, organism-specific biosystem; Disease, organism-specific biosystem; Endochondral Ossification, organism-specific biosystem;

**Function** growth factor activity; growth hormone receptor binding; growth hormone receptor

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binding; hormone activity; metal ion binding; prolactin receptor binding; protein binding;

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