

Active Recombinant Human GH1, His-tagged

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

SPECIFICATION

Product Overview	Recombinant human GH1 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography.
Species	Human
Source	E.coli
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. 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.
Form	Liquid. In. 88mM mannitol, 5mM phosphate, pH7.4
Bio-activity	The proliferative activity of rhGH was tested in culture using rat Nb2 Lymphoma cells
Molecular Mass	22.2 kDa (192 aa), confirmed by MALDI-TOF
Endotoxin	Less than 0.1 ng/μg (IEU/μg) of recombinant human Growth hormone by the LAL method
Purity	More than 95%, as determined by SDS-PAGE, SEC HPLC, RP HPLCIEF: 5.1
Stability	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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