

Recombinant Human 20 kDa Growth Hormone

Cat. No. GH1-77H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant 20KDa human growth hormone was purified by FPLC gel-filtration chromatography, after refolding of the isolated inclusion bodies in a renaturation buffer, 20 kDa (177 aa).
Species	Human
Source	E.coli
Description	The 20KDa variant form of human growth hormone (20KDa hGH) presents in extracts from pituitary glands and it differs from the major form of hGH (22K, 191 amino acid) by the deletion of amino acid residues 32-46. The physiological role of 20K hGH remains to be determined partly but it regards the main function as stimulation of somatic and bone growth, as well as an increase in the size and mass of organs and tissues.
Sequences of amino acids	MFPTIPLSRL FDNAMLRAHR LHQLAFDTYQ EFNPTSLCF SESIPTPSNR EETQQKSNLE LLRISLLLIQ SWLEPVQFLR SVFANSLVYG ASDSNVYDLL KDLEEGIQTL MGRLEDGSPR TGQIFKQTYS KFDTNSHNDD ALLKNYGLLY CFRKDMDKVE TFLRIVQCRS VEGSCGF
Formulation	Liquid in 88 mM mannitol, 5mM phosphate(pH 7.4)
Purity	> 95% by SDS - PAGE
Concentration	1 mg/ml (determined by Bradford assay)

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Storage

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.

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;20 kDa 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

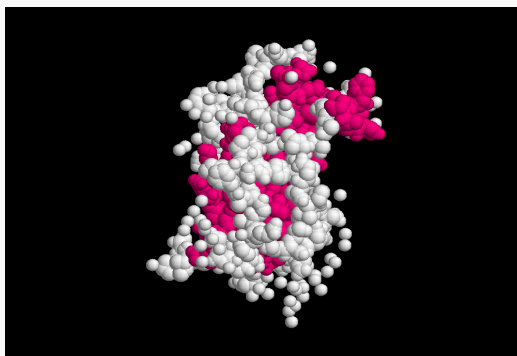
growth factor activity; growth hormone activity; growth hormone receptor binding; prolactin receptor binding; protein binding

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Growth hormone



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