

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

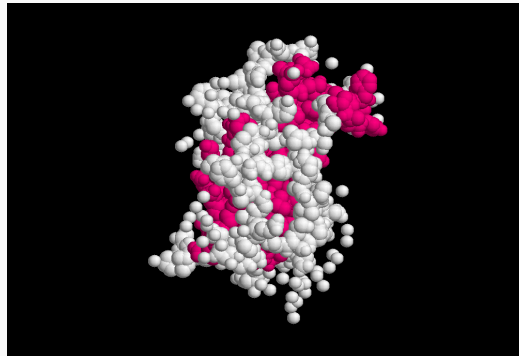
Function growth factor activity; growth hormone activity; growth hormone receptor binding; prolactin receptor binding; protein binding

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