

**AR09032PU-L****Recombinant 20 kDa HGH (Human Growth Hormone, Bioactivity Validated)**

<b>Alternate names:</b>	Growth hormone 1, HGH, Pituitary growth hormone
<b>Quantity:</b>	0.5 mg
<b>Concentration:</b>	1.0 mg/ml
<b>Background:</b>	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.
<b>Uniprot ID:</b>	<a href="#">P01241</a>
<b>NCBI:</b>	<a href="#">NP_000506.2</a>
<b>GeneID:</b>	<a href="#">2688</a>
<b>Species:</b>	Human
<b>Source:</b>	E. coli
<b>Format:</b>	<b>State:</b> Liquid purified protein <b>Purity:</b> >95% pure by SDS PAGE <b>Buffer System:</b> 88 mM Mannitol, 5 mM phosphate, pH 7.4 <b>Endotoxin Level:</b> < 1.0 EU per 1 microgram of protein (determined by LAL method)
<b>Description:</b>	Recombinant 20 KDa human growth hormone was purified by FPLC gel-filtration chromatography, after refolding of the isolated inclusion bodies in a renaturation buffer. <b>AA Sequence:</b> MFPTIPLSRL FDNAMLRAHR LHQLAFDTYQ EFNPTSLCF SESIPTPSNR EETQQKSNLE LLRISLLLIQ SWLEPVQFLR SVFANSLVYG ASDSNVYDLL KDLEEGIOTL MGRLEDGSPR TGQIFKQTYS KFDTNSHND ALLKNYGLLY CFRKDMDKVE TFLRIVQCRS VEGSCGF <b>Biological Activity:</b> Measured in a cell proliferation assay using Nb2-11 Rat lymphoma cells. The ED50 for this effect is less or equal to 1 ng/ml. <b>Molecular weight:</b> 20 kDa 20 kDa (177 amino acids) confirmed by MALDI-TOF.
<b>Storage:</b>	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.
<b>General Readings:</b>	Tsushima, et al (2000) Endocr J. 47; S17-21. Horan, M., et al (2003) Hum. Mutat. 21(4), 408-423.

**Pictures:**

20kDa hGH: 14% SDS-PAGE

