

20kDa Growth Hormone Active Protein | GH1 active protein

20kDa Growth Hormone, 27-202 aa, Human, E Coli (Bioactivity Validated)

CATALOG # AAA48455	HOST E Coli	APPLICATIONS SDS-Page
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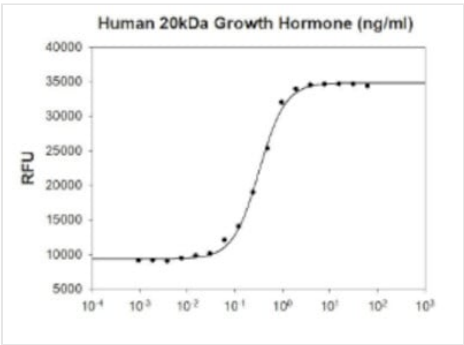
PRODUCT SYNONYMS

20kDa Growth Hormone; 27-202 aa; Human; E Coli (Bioactivity Validated); hGH-V; GH2; Growth hormone 2 isoform 4; HCG1749481; isoform CRA_t; Placental growth hormone 20kDa isoform; Pituitary growth hormone; Growth hormone 1; GH; GH 1; GH N; GH-N; GH1; GHN; Growth hormone; Growth hormone 1 Pituitary growth hormone; Growth hormone 1 variant 1; Growth hormone 1 variant 2; Growth Hormone Normal; Growth Hormone Pituitary; normal; pituitary; HG1; hGH N; hGH-N; HGHN; IGHD1B; Pituitary Growth Hormone; RNGHGP; Somatotropin; Somatotropin C; Somatotropin I Precursor; ; GH1 active protein

PRODUCT SPECIFICATIONS

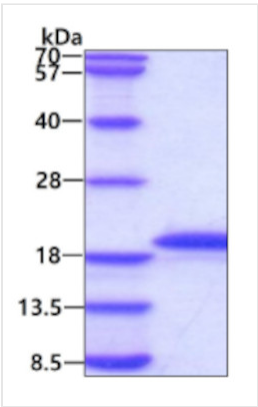
Host	E Coli
Purity/Purification	> 95% by SDS-PAGE
Form/Format	Liquid. In phosphate buffer saline (pH 7.4) containing 10% glycerol
Concentration	1 mg/ml (determined by BCA assay) (varies by lot)
Sequence	MFPTIPLSRL FDNAMLRAHR LHQLAFDTYQ EFNPQTSLCF SESIPTPSNR EETQQKSNLE LLRISLLLIQ SWLEPVQFLR SVFANSLVYG ASDSNVYDLL KDLEEGIQTL MGRLEDGSPR TGQIFKQTY S KFDTN SHNDD ALLKNYGLLY CFRKDMDKVE TFLRIVQCRS VEGSCGF
Sequence Length	217
Applicable Applications for GH1 active protein	Bioactivity, SDS-PAGE
Tag	Not tagged
Endotoxin Level	< 1.0 EU per 1 microgram of protein (determined by LAL method)
Biological Activity	Measured in a cell proliferation assay using Nb2-11 Rat lymphoma cells. The ED50 for this effect is less or equal to 1ng/ml.
Preparation and Storage	Can be stored at 2-8 degree C short term for one week For long term storage, aliquot and store at -20 degree C or -80 degree C. Avoid repeated freezing and thawing cycles.

IMAGES



Bioactivity

Human 20kDa Growth Hormone stimulates cell proliferation of the Nb2-11 Rat lymphoma cells. The ED50 range ?1 ng/ml.



SDS-PAGE

3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

ADDITIONAL INFORMATION

Related Product Information for GH1 active protein	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. Recombinant 20KDa human growth hormone was purified by FPLC gel-filtration chromatography, after refolding of the isolated inclusion bodies in a renaturation buffer.
Product Categories/Family for GH1 active protein	Hormones & Cytokines
References	Frigeri, et al (1979) Biochem Biophys Res Commun. 14; 778-82; Adelman, et al (1983) DNA. 2; 183-93; Tsushima, et al (2000) Endocr J. 47; S17-21; Horan, M.,et al (2003) Hum. Mutat. 21 (4), 408-423;

NCBI AND UNIPROT INFORMATION

NCBI GI #	13027812
NCBI GeneID	2688
NCBI Accession #	NP_000506
NCBI GenBank Nucleotide #	NM_000515.4
UniProt Accession #	P01241; Q14405; Q16631; Q5EB53; Q9HBZ1; Q9UMJ7; Q9UNL5; A6NEF6
Molecular Weight	20 kDa (177 aa), confirmed by MALDI-TOF.
NCBI Official Full Name	somatotropin isoform 1
NCBI Official Synonym Full Names	growth hormone 1
NCBI Official Symbol	GH1
NCBI Official Synonym Symbols	GH; GHN; GH-N; GHB5; hGH-N; IGHD1B
NCBI Protein Information	somatotropin
UniProt Protein Name	Somatotropin
UniProt Gene Name	GH1
UniProt Synonym Gene Names	GH; GH-N

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/e-coli-active-protein/20kda-growth-hormone/48455>