

Growth Hormone Active Protein | GHBP active protein

Recombinant Human Growth Hormone Binding Protein; GHBP Human

CATALOG #
AAA38125

PRODUCT SYNONYMS

Growth Hormone; Recombinant Human Growth Hormone Binding Protein; GHBP Human; GHR; GHBP; GH receptor; Somatotropin receptor; GHBP active protein

PRODUCT SPECIFICATIONS

Purity/Purification	Greater than 98.0% as determined by: (a) Analysis by SEC-HPLC. (b) Analysis by SDS-PAGE.
Form/Format	Sterile Filtered White lyophilized (freeze-dried) powder. GHBP was lyophilized from a concentrated (1mg/ml) solution with 0.0045mM NaHCO ₃
Sequence	AFSGSEATAA ILSRAPWSLQ SVNPLKTNS SKEPKFTKCR SPERETFSCW WTDEVHHGTH NLGPIQLFYT RRNTQEWTFE WKECPDYVSA GENSIFYNSS FTSIWIPYCI KLTSGGTVD EKCFVDEIV QDPPIALNW TLLNVSLTGI HADIQVRWEA PRNADIQKGW MVLEYELQYK EVNETKWMM DPILTTSVPV YSLKVDKEYE VRVRSKQRNS GNYGEFSEVL YVTLPQMSQF TCEEDFYF
Sequence Length	638
Source	E.coli
Biological Activity	GHBP is fully biologically active as evidenced by its ability of forming 2:1 complex with HGH.
Solubility	It is recommended to reconstitute the lyophilized Growth Hormone Binding Protein in sterile 18 mega-ohm-cm H ₂ O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.
Protein Content	Protein quantitation was carried out by two independent methods: 1. UV spectroscopy at 280 nm using the absorbency value of 2.6 as the extinction coefficient for a 0.1% (1mg/ml) solution. This value is calculated by the PC GENE computer analysis program of protein sequences (IntelliGenetics). 2. Analysis by RP-HPLC, using a calibrated solution of GHBP as a Reference Standard.
Preparation and Storage	Lyophilized Growth Hormone Binding Protein although stable at room temperature for 3 weeks, should be stored desiccated below -18 degree C. Upon reconstitution GHBP should be stored at 4 degree C between 2-7 days and for future use below -18 degree C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

ADDITIONAL INFORMATION

Related Product Information for GHBP active protein	Description: Growth Hormone Binding Protein Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 248 amino acids and having a molecular mass of 28107.01 Dalton. GHR is purified by proprietary chromatographic techniques. Introduction: GHBP is a transmembrane receptor for growth hormone. Binding of growth hormone to the receptor leads to receptor dimerization and the activation of an intra- and intercellular signal transduction pathway leading to growth. A common alternate allele of this gene, called GHRd3, lacks exon three and has been well-characterized. Mutations in this gene have been associated with Laron syndrome, also known as the growth hormone insensitivity syndrome (GHIS), a disorder characterized by short stature. Other splice variants, including one encoding a soluble form of the protein (GHRtr), have been observed but have not been thoroughly characterized.
Product Categories/Family for GHBP active protein	Cytokines and Growth Factors; Growth Factors; Growth Hormone

NCBI AND UNIPROT INFORMATION

NCBI GI #	4503993
NCBI GeneID	2690
NCBI Accession #	NP_000154.1
NCBI GenBank Nucleotide #	NM_000163.4
UniProt Accession #	P10912; Q9HCX2
Molecular Weight	69,237 Da
NCBI Official Full Name	growth hormone receptor isoform 1
NCBI Official Synonym Full Names	growth hormone receptor
NCBI Official Symbol	GHR
NCBI Official Synonym Symbols	GHBP; GHIP
NCBI Protein Information	growth hormone receptor; GH receptor; growth hormone binding protein; serum binding protein; somatotropin receptor
UniProt Protein Name	Growth hormone receptor
UniProt Gene Name	GHR
UniProt Synonym Gene Names	GH receptor; GH-binding protein; GHBP
UniProt Entry Name	GHR_HUMAN

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://www.aaabiotech.com/ghbp-active-protein/growth-hormone/38125>