

Recombinant Human GHR protein

Cat. No. GHR-39H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human GHR was expressed in E. coli.
Species	Human
Source	E.coli
Description	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.
Form	GHBP was lyophilized from a concentrated (1mg/ml) solution with 0.0045mM NaHCO ₃ .
Molecular Mass	28107.01 Dalton
AA Sequence	AFSGSEATAAILSRAPWSLQSVNPGLKTNS SKEPKFTKCRSPERETF SCHWTDEVH HGTKNLGPIQLFYTRRNTQEW TQEWKECPDYVSA GENSCYFNSSFTSIWIPYCIKLT SNGGTVD EKCFVDEIVQPDPIALNWTLNLSLTGI HADIQVRWEAPRNADIQKGWMVLEYEL QYKEVNETKWKMMDPILTTSVPVYSLKVDKEYE VRVRSKQRNSGNYGEFSEVLYV

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

	TLPQMSQF TCEEDFYF.
Purity	Greater than 98.0% as determined by: (a) Analysis by SEC-HPLC. (b) Analysis by SDS-PAGE.
Storage	Lyophilized Growth Hormone Binding Protein although stable at room temperature for 3 weeks, should be stored desiccated below -18 centigrade. Upon reconstitution GHBP should be stored at 4 centigrade between 2-7 days and for future use below -18 centigrade. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.
Reconstitution	It is recommended to reconstitute the lyophilized Growth Hormone Binding Protein in sterile 18MΩ-cm H ₂ O not less than 100g/ml, which can then be further diluted to other aqueous solutions.

GENE INFORMATION

Gene Name	GHR growth hormone receptor [Homo sapiens]
Official Symbol	GHR
Synonyms	GHR; growth hormone receptor; GH receptor; serum binding protein; somatotropin receptor; growth hormone binding protein; GHBP;
Gene ID	2690
mRNA Refseq	NM_000163

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Protein Refseq	NP_000154
MIM	600946
UniProt ID	P10912
Chromosome Location	5p14-p12
Pathway	Androgen Receptor Signaling Pathway, organism-specific biosystem; Cytokine Signaling in Immune system, organism-specific biosystem; Cytokine-cytokine receptor interaction, organism-specific biosystem; Cytokine-cytokine receptor interaction, conserved biosystem; Endochondral Ossification, organism-specific biosystem; Growth hormone receptor signaling, organism-specific biosystem; Immune System, organism-specific biosystem;
Function	SH2 domain binding; growth factor binding; growth hormone receptor activity; peptide hormone binding; proline-rich region binding; protein binding; protein homodimerization activity; protein kinase binding; protein phosphatase binding; receptor activity;

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