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## Product Data Sheet

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Product Name: GHBP Human

Cat. No.: GP20348

Batch No.: 1

**Product Data**

Purity &gt;98% Source Escherichia Coli.

Physical Appearance solid Shipping Condition Shipped at Room temp.

Amino Acid Sequence  
 AFSGSEATAAILS RAPWSLQSVNPGLKTNS  
 SKEPKFTKCRSPERETF SCHWTDEVHHGTKNLGPIQLFYTRRNTQEWTQEWKECPDYVSA  
 GENSCYFNSSFTSIWIPYCIKLTNSGGTVDEKCFVSVEIVQDPPIALNWTLLNVSLTGI  
 HADIQVRWEAPRNADIQKGWMVLEYELQYKEVNETKWKMMDPILTTSVPVYSLKVDKEYE  
 VRVRSKQRNSGNYGEFSEVLYVTLPQMSQFTCEEDFYF.

Solubility It is recommended to reconstitute the lyophilized GHBP in sterile 18MΩ-cm H<sub>2</sub>O not less than 100μg/ml, which can then be further diluted to other aqueous solutions.

Formulation GHBP was lyophilized from a concentrated (1mg/ml) solution with 0.0045mM NaHCO<sub>3</sub>.

**Introduction**

GHBP is a transmembrane receptor for GH. Binding of GH 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 GH 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.

**Biological Activity**

GHBP is fully biologically active as evidenced by its ability of forming 2:1 complex with GH.

**Stability**

Lyophilized GHBP although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution GHBP should be stored at 4°C between 2-7

**Caution: Product has not been fully validated for medical applications. For research use only.**

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days and for future use below  $-18^{\circ}\text{C}$ . For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

### Background

GHBPHuman 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.

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