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## Product Data Sheet

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Product Name: GHBP Rabbit  
Cat. No.: GP20351  
Batch No.: 1

### Product Data

Purity >98% Source  
Physical Appearance solid Shipping Condition

Synonyms GHR; GHBP; GH receptor; Somatotropin receptor.

Amino Acid Sequence AFGSGEATPATLGRASESVQRVHPGLGTNSSGKPKFTKCRSPELETFSCHWTDGTVHGLKSPGVSQVLFYIRRNTQEWTKQEWKECPDYVSAGENSICYFN

Solubility It is recommended to reconstitute the lyophilized GHBP Rabbit in sterile 0.4% NaHCO<sub>3</sub> pH 10, not less than 100µg/ml, which can be used for cell culture.  
Formulation The Growth Hormone Binding Protein Rabbit was lyophilized from a concentrated (1mg/ml) solution with 0.0045mM NaHCO<sub>3</sub>.

### 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.

### Biological Activity

Evidenced by its ability of forming 2:1 complex with non-primate Growth Hormones.

### Stability

Lyophilized Growth Hormone Binding Protein Rabbit although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution GHBP Rabbit should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

### Background

Growth Hormone Binding Protein Rabbit Extracellular Domain Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 249 amino acids and having a molecular mass of 28 kDa. GHBP Rabbit is purified by proprietary chromatographic techniques.

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

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