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## Product Data Sheet

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Product Name: GHBP Ovine  
 Cat. No.: GP20350  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	GHR; GHBP; GH receptor; Somatotropin receptor.		
Amino Acid Sequence	The sequence of the first five N-terminal amino acids was determined and was found to be Ala-Phe-Ser-Gly-Ser.		
Solubility	It is recommended to reconstitute the lyophilized Growth Hormone Binding Protein 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 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.

### Stability

Lyophilized Growth Hormone Binding Protein 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 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.

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

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### Background

Growth Hormone Binding Protein Ovine Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 237 amino acids and having a molecular mass of 28 kDa. GHBP is purified by proprietary chromatographic techniques.

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