

Recombinant Ovine Growth Hormone Receptor

Cat. No. GHR-380 **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Ovine Growth Hormone Binding Protein produced in <i>E. Coli</i> 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.
Species	Ovine
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.
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.
Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
Purity	Greater than 95.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.

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

GENE INFORMATION

Gene Name	GHR growth hormone receptor [<i>Ovis aries</i>]
Synonyms	GHR; GHBP; GH receptor; Somatotropin receptor; GH receptor; Somatotropin receptor; growth hormone binding protein; growth hormone receptor; serum binding protein
Gene ID	443333
mRNA Refseq	NM_001009323
Protein Refseq	NP_001009323
UniProt ID	Q28575

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