

32-1263: Ovine GHBP Recombinant Protein

Alternative Name : GHR,GHBP,GH receptor,Somatotropin receptor.

Description

Source : Escherichia Coli. 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. 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.

Product Info

Amount :	20 µg
Purification :	Greater than 95.0% as determined by:(a) Analysis by SEC-HPLC.(b) Analysis by SDS-PAGE.
Content :	GHBP was lyophilized from a concentrated (1mg/ml) solution with 0.0045mM NaHCO ₃ .
Storage condition :	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.
Amino Acid :	The sequence of the first five N-terminal amino acids was determined and was found to be Ala-Phe-Ser-Gly-Ser.

Application Note

It is recommended to reconstitute the lyophilized Growth Hormone Binding Protein in sterile 18MΩ-cm H₂O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

