

## GHR

### Recombinant Bovine Growth Hormone Receptor

<b>Catalog No.</b>	CRG012A	<b>Quantity:</b>	5 µg
	CRG012B		20 µg
	CRG012C		1.0 mg

**Alternate Names:** GHR, GHBP, GH receptor, Somatotropin receptor.

**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. Growth Hormone Binding Protein Bovine Recombinant produced in *E. coli* is a single, non-glycosylated, polypeptide chain containing 237 amino acids and having a molecular mass of 28 kDa.

**GenelD:** 280805

**Source:** *E. coli*

**Molecular Mass:** 28 kDa

**Formulation:** The Growth Hormone Binding Protein Bovine was lyophilized from a concentrated (1 mg/ml) solution with 0.0045 mM NaHCO<sub>3</sub>.

**Purity:** Greater than 95.0% as determined by:  
(a) Analysis by SEC-HPLC.  
(b) Analysis by SDS-PAGE.

**Purification:** GHBP Bovine is purified by proprietary chromatographic techniques.

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

**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.

**Storage & Stability:** Lyophilized Growth Hormone Binding Protein Bovine although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution GHBP Bovine 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.**

**NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.**