

## GHBP Human

**Description:** Growth Hormone Binding Protein Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 237 amino acids and having a molecular mass of 28107.01 Dalton. GHR is purified by proprietary chromatographic techniques.

Catalog #: CYP5-245

**Synonyms:** GHR, GHBP, GH receptor, Somatotropin receptor.

For research use only.

**Source:** Escherichia Coli.

**Physical Appearance:** Sterile Filtered White lyophilized (freeze-dried) powder.

**Amino Acid Sequence:** a f s g s e a t a i l s r a p w s l q s v n p g l k t n s s k e p k f t k c r s p e r e t f s c h w t d e v h g t k n l g p i q l f y t r m t q e w t q e w k e c p d y s a g e n s c y f n s s f t s i w i p y c i k l t s n g g t v d e k c f s v d e i v q p d p p i a l n w t l l n v s l t g i h a d i q v r w e a p r n a d i q k g w m v l e y e l q y k e v n e t k w k m m d p i l t t s v p v y s l k v d k e y e v r v r s k q r n s g n y g e f s e v l y v t

**Purity:** Greater than 98.0% as determined by: (a) Analysis by SEC-HPLC. (b) Analysis by SDS-PAGE.

### Formulation:

GHBP was lyophilized from a concentrated (1mg/ml) solution with 0.0045mM NaHCO<sub>3</sub>.

### 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.

### Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

### Solubility:

It is recommended to reconstitute the lyophilized Growth Hormone Binding Protein in sterile 18M-cm H<sub>2</sub>O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

### 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:

GHBP is fully biologically active as evidenced by its ability of forming 2:1 complex with HGH.

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