www.neobiolab.com
info@neobiolab.com
888.754.5670, +1 617.500.7103 United States
0800.088.5164, +44 020.8123.1558 United Kingdom

GHBP Ovine

Catalog #:CYPS-477

For research use only.

Description: 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.

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

Source: Escherichia Coli.

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

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.

Purity: Greater than 95.0% 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 NaHCO3.

Stability:
Lyophilized Growth Hormone Binding Protein althoμgh 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.They may not be used as drμgs,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 H2O 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 thoroμghly characterized.

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