9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
Tel: 760-390-3989

GHBP Human

GHBP Human Recombinant
GRF0131

Product Overview

Name	GHBP Human
Description	
GHBP Human Recombinant	
Accession (Primary)	P10912
Introduction	
GHBP is a transmembrane receptor for GH. Binding of GH 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 GH 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.	
Source	
Escherichia Coli.	
Physical Appearance	
Sterile Filtered White lyophilized (freeze-dried) powder.	
Formulation	
GHBP was lyophilized from a concentrated (1mg/ml) solution with 0.0045mM NaHCO3.	
Stability	
Lyophilized GHBP 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.	
Purity	
Greater than 98.0% as determined by: (a) Analysis by SEC-HPLC. (b) Analysis by SDS-PAGE.	
Amino acid sequence	
AFSGSEATAAILSRAPWSLQSVNPGLKTNS SKEPKFTKCRSPERETFSCHWTDEVHHGTK NLGPIQLFYTRRNTQEWTQEWKECPDYVSA GENSCYFNSSFTSIWIPYCIKLTSNGGTVD EKCFSVDEIVQPDPPIALNWTLLNVSLTGI HADIQVRWEAPRNADIQKGWMVLEYELQYK EVNETKWKMMDPILTTSVPVYSLKVDKEYE VRVRSKQRNSGNYGEFSEVLYVTLPQMSQF TCEEDFYF.	

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Biological Activity

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

Solubility

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

Protein content

Protein quantitation was carried out by two independent methods: 1. UV spectroscopy at 280 nm using the absorbency value of 2.6 as the extinction coefficient for a 0.1% (1mg/ml) solution. This value is calculated by the PC GENE computer analysis program of protein sequences (IntelliGenetics). 2. Analysis by RP-HPLC, using a calibrated solution of GHBP as a Reference Standard.

Precautions

GHBP Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (P10912)