

Bioactive

GHR (Human) Recombinant Protein

Catalog # P8735

Size 2 x 10 ug

Specification

Product Description	Human GHR partial recombinant protein expressed in?Insect cells.
Sequence	AFSGSEATAAILS RAPWSLQSVN PGLKTNSSKEPKFTKCRSPERETF SCHWTDEVHHGTKNLGPIQLFYTRRNTQEWTQEWKECPDYVSAGENSCYFNSSFTSMIPYCIKLT SNGGTVDEKCF SVDEIMQPDPPIALNWTLLNVSLTG IHADIQVRWEAPRNADIQKGWMVLEYELQYKEVNETKWKMMDPILTTSVPVYSLKVDKEYEVRVRSKQRNSGNYGEFSEVLVYTL PQMSQFTCEEDFYF
Host	insect
Theoretical MW (kDa)	29.4
Form	Liquid
Preparation Method	Baculovirus expression system
Purification	chromatographic
Purity	> 95% as determined by SDS-PAGE.
Activity	ED ₅₀ < 10 ng/mL, measured by ability to inhibit GH-induced proliferation assay using Nb2-11 Rat lymphoma cells in the presence of 1.25 ng/mL of human growth hormone.
Storage Buffer	solution (1 mg/mL) containing 1X PBS, pH 7.4, 10% glycerol.
Storage Instruction	Store at 4°C for 2-4 weeks and should be stored at -20°C to -80°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid repeated freeze/thaw cycles.

Applications

- Functional Study

Gene Info — GHR

Entrez GeneID [2690](#)

Protein Accession# [P10912](#)

Gene Name GHR

Gene Alias GHBP

Gene Description growth hormone receptor

Omim ID [262500 600946](#)

Gene Ontology [Hyperlink](#)

Gene Summary

This gene encodes a protein that 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. In humans and rabbits, but not rodents, growth hormone binding protein (GHBP) is generated by proteolytic cleavage of the extracellular ligand-binding domain from the mature growth hormone receptor protein. The precise location of this cleavage site has not been determined for the human protein.

Other Designations growth hormone binding protein|serum binding protein|somatotropin receptor

Pathway

- [Cytokine-cytokine receptor interaction](#)
- [Jak-STAT signaling pathway](#)
- [Neuroactive ligand-receptor interaction](#)

Disease

- [Acromegaly](#)
- [Adenocarcinoma](#)
- [Alzheimer disease](#)

- [Anorexia Nervosa](#)
- [Binge-Eating Disorder](#)
- [Birth Weight](#)
- [Bone Diseases](#)
- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Bulimia](#)
- [Carcinoma](#)
- [Cardiovascular Diseases](#)
- [Cerebral Amyloid Angiopathy](#)
- [Cerebrovascular Accident](#)
- [Diabetes Complications](#)
- [Diabetes Mellitus](#)
- [Diabetic Nephropathies](#)
- [Dwarfism](#)
- [Edema](#)
- [Esophageal Neoplasms](#)
- [Genetic Predisposition to Disease](#)
- [Glucose Intolerance](#)
- [Growth Disorders](#)
- [Hypertension](#)
- [Hypopituitarism](#)
- [Insulin Resistance](#)
- [Kidney Failure](#)
- [Laron Syndrome](#)

- [Lung carcinoma](#)
- [Lung Neoplasms](#)
- [Lymphoma](#)
- [Metabolic Diseases](#)
- [Metabolic Syndrome X](#)
- [Neoplasms](#)
- [Neuroblastoma](#)
- [Obesity](#)
- [Osteoarthritis](#)
- [Osteoporosis](#)
- [Ovarian cancer](#)
- [Ovarian Failure](#)
- [Ovarian Neoplasms](#)
- [Pituitary ACTH Hypersecretion](#)
- [Polycystic Ovary Syndrome](#)
- [Prognathism](#)
- [Prostate cancer](#)
- [Prostatic Neoplasms](#)
- [Puberty](#)
- [Pulmonary Disease](#)
- [Scoliosis](#)
- [Spinal Fractures](#)
- [Thrombophilia](#)
- [Thyroid Neoplasms](#)
- [Tobacco Use Disorder](#)
- [Turner Syndrome](#)

- [Urinary Bladder Neoplasms](#)
- [Werner syndrome](#)