

Recombinant Human GHR, His-tagged, Biotinylated

Cat. No. GHR-254H Lot. No. (See product label)

SPECIFICATION

Product Overview	Human GHR Protein, Biotinylated (Biotinylated GHR) Ala 27 - Tyr 264, was labeled with biotin based on rhGHR Protein, which was produced in human 293 cells (HEK293).
Species	Human
Source	HEK293
ProteinLength	27-264 a.a.
Description	This gene encodes a member of the type I cytokine receptor family, which 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. 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. 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. Multiple alternatively spliced transcript variants have been found for this gene.
Form	Lyophilized from 0.22 µm filtered solution in PBS, pH7.4. Normally Trehalose are added as protectants before lyophilization.
Molecular Mass	Biotinylated GHR, fused with 6xHis tag at the C-terminus, has a calculated MW of

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	28.5 kDa. The predicted N-terminus is Ala 27. DTT-reduced Protein migrates as 40-50 kDa due to glycosylation.
Endotoxin	Less than 1.0 EU per µg of the Biotinylated GHR by the LAL method.
Purity	>95% as determined by reduced SDS-PAGE.
Storage	Avoid repeated freeze-thaw cycles. No activity loss was observed after storage at: In lyophilized state for 1 year (4°C); After reconstitution under sterile conditions for 3 months (-70°C).
Conjugation	Biotin

GENE INFORMATION

Gene Name	GHR growth hormone receptor [Homo sapiens]
Official Symbol	GHR
Synonyms	GHR; growth hormone receptor; GH receptor; serum binding protein; somatotropin receptor; growth hormone binding protein; GHBP;
Gene ID	2690
mRNA Refseq	NM_000163
Protein Refseq	NP_000154
MIM	600946
UniProt ID	P10912

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**Chromosome
Location**

5p14-p12

Pathway

Androgen Receptor Signaling Pathway, organism-specific biosystem; Cytokine Signaling in Immune system, organism-specific biosystem; Cytokine-cytokine receptor interaction, organism-specific biosystem; Cytokine-cytokine receptor interaction, conserved biosystem; Endochondral Ossification, organism-specific biosystem; Growth hormone receptor signaling, organism-specific biosystem; Immune System, organism-specific biosystem;

Function

SH2 domain binding; growth factor binding; growth hormone receptor activity; peptide hormone binding; proline-rich region binding; protein binding; protein homodimerization activity; protein kinase binding; protein phosphatase binding; receptor activity;

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