Active Recombinant Human GHR Protein, Fc-tagged

Cat. No. GHR-1623H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human GHR (Ala27-Tyr264) with Human IgG1 (Pro100-Lys330) Fc tag was expressed in Mouse myeloma cell line.
Species	Human
Source	Mouse myeloma cell
ProteinLength	27-264
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	Disulfide-linked homodimer
Bio-activity	Measured by its ability to inhibit GH-induced proliferation of Nb2-11 rat lymphoma cells. The ED50 for this effect is 0.4-2.0 ng/mL in the presence of 0.2 ng/mL of rhGH.

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Molecular Mass	54 kDa (monomer)
N-terminal Sequence Analysis	Ala27
Endotoxin	< 0.01 EU/μg of the protein by the LAL method.
Purity	> 90%, by SDS-PAGE visualized with Silver Staining and quantitative densitometry by Coomassie® Blue Staining.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution.
Storage Buffer	Lyophilized from a 0.2 μm filtered solution in PBS.
Reconstitution	Reconstitute at 100 μg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature.

GENE INFORMATION

Gene Name	GHR growth hormone receptor [Homo sapiens (human)]
Official Symbol	GHR
Synonyms	GHR; growth hormone receptor; GHBP; GHIP; growth hormone receptor; GH receptor; growth hormone binding protein; mutant growth hormone receptor; serum binding protein; somatotropin receptor; truncated growth hormone receptor

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Gene ID	2690
mRNA Refseq	NM_000163
Protein Refseq	NP_000154
MIM	600946
UniProt ID	P10912

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