

Recombinant Human GHR Protein, His-tagged

Cat. No. GHR-279H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human GHR protein with His tag was expressed in HEK293.
Species	Human
Source	HEK293
ProteinLength	638
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
Molecular Mass	28.5 kDa
AA Sequence	MDLWQLLLTLALAGSSDAFSGSEATAAILSRAPWSLQSVNPGLKTNSSKEPKFTKCR SPERETFSCSWTDEVHGGTKNLGPIQLFYTRRNTQEWQTQEWKECPDYVSAGENSC

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YFNSSFTSIWIPYCIKLTSNGGTVDEKCFVDEIVQPDPPIALNWTLLNVSLTGIHADIQ
 VRWEAPRNADIQKGWMVLEYELQYKEVNETKWKMMDPILTTSVPVYSLKVDKEYEV
 RVRSKQRNSGNYGEFSEVLYVTLPQMSQFTCEEDFYFPWLLIIIFGIFGLTVMLFVFL
 FSKQQRIKMLILPPVPVPIKIGIDPDLLKEGKLEEVNTILAIHDSYKPEFHSDDSWVEFI
 ELDIDEPDEKTEESDTRLLSSDHEKSHSNLGVKDGDGSGRTSCCEPDILETDFNAND
 IHEGTSEVAQPQRLKGEADLLCLDQKNQNNSPYHDACPATQQPSVIAEKNKPQPL
 PTEGAESTHQAHHIQLSNPSSLSNIDFYAQVSDITPAGSVVLSPGQKNKAGMSQCD
 MHPEMVSLCQENFLMDNAYFCEADAKKCIPVAPHIKVESHIQPSLNQEDIYITTESLT
 TAAGRPGTGEHVPGSEMPVPDYTSIHIVQSPQGLILNATALPLPDKEFLSSCGYVST
 DQLNKIMP

Purity > 98%

Applications WB; ELISA; FACS; FC

Stability This bioreagent is stable at 4 centigrade (short-term) and -70 centigrade(long-term). After reconstitution, sample may be stored at 4 centigrade for 2-7 days and below -18 centigrade for future use.

Storage At -20 centigrade.

Concentration 1 mg/mL

Storage Buffer PBS (pH 7.4-7.5). Sterile-filtered colorless solution.

Reconstitution Reconstitute in sterile distilled H₂O to no less than 100 µg/mL; dilute reconstituted stock further in other aqueous solutions if needed. Please review COA for lot-specific instructions. Final measurements should be determined by the end-user for optimal performance.

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GENE INFORMATION

Gene Name	GHR growth hormone receptor [Homo sapiens (human)]
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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