

Active Recombinant Human GHR Homodimer Protein, His&Avi tagged

Cat. No. GHR-42H Lot. No. (See product label)

SPECIFICATION

Product Overview

GHR protein dimer contains a GHR extracellular domain (UniProt# P10912) fused with a proprietary dimer motif followed by a tandem His-Avi tag at the C-terminus was expressed in HEK293T.

Species

Human

Source

HEK293T

ProteinLength

19-264 aa

Description

Human growth hormone receptor (GHR) is the transmembrane protein receptor for growth hormone and a member of the Type I cytokine receptor family of receptors. GHR is also known as GH binding protein (GHBP) and GHIP. GHR contains an extracellular domain with two fibronectin type III β domains followed by a single-pass transmembrane domain and a cytoplasmic intracellular domain. GHR can form dimers as preformed dimer and growth hormone induced dimer. GHR dimerization is crucial for growth hormone signaling to activate an intracellular enzyme Janus kinase 2 (JAK2). GHR is widely distributed in the body, and the preformed GHR homodimer is expressed across a wide range of cellular types in different tissues. Mutations in the GHR gene have been associated with growth hormone insensitivity syndrome (GHIS) and growth hormone plays a significant role in cancer development. A recombinant protein mimicking the GHR dimer conformation can be crucial for therapeutic innovation.

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Molecular Mass	76 kDa
Purity	Greater than 90% dimer form as determined by SDS-PAGE under non-reducing condition
Application	Verified Applications: ELISA for GHR-specific antibodies and ELISA and SPR for growth hormone ligand protein binding assays. Suggested Applications: SPR and BLI for GHR-specific antibodies and BLI for growth hormone protein binding assays. Animal immunization, RUO.
Storage	Store at -80 centigrade.
Storage Buffer	0.22µm filtered PBS, pH 7.4
Shipping	Frozen Dry Ice

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

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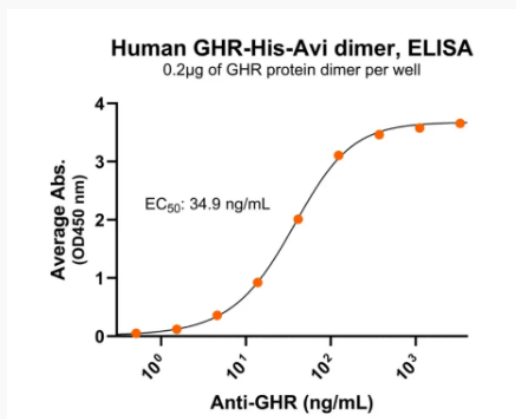
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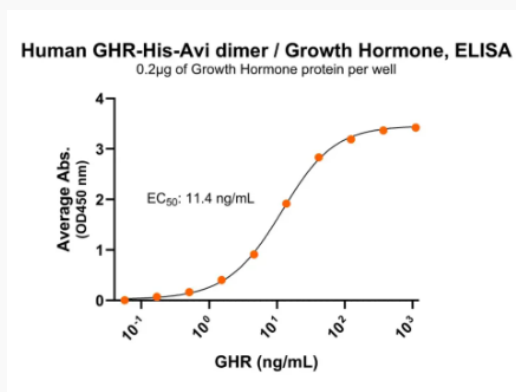
UniProt ID P10912

Bioactivity-Antibody Binding



Immobilized human GHR protein dimer, His Tag at 2 µg/mL (100 µL/well) can bind anti-human GHR monoclonal antibody with half maximal effective concentration (EC₅₀) range of 17.4-69.8 ng/mL (QC tested).

Bioactivity-Ligand Binding



Immobilized human Growth Hormone at 2 µg/mL (100 µL/well) can bind human GHR protein dimer, His Tag with half maximal effective concentration (EC₅₀) range

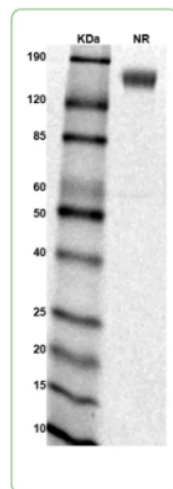
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of 5.7-22.8 ng/mL (QC tested).

SDS-PAGE and WB



MW: Molecular Weight marker reduced condition NR: GHR dimer under non-reduced condition

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