

Datasheet for ABIN2181157

Growth Hormone Receptor Protein (GHR) (AA 27-264) (Fc Tag)[Go to Product page](#)**2** Images

Overview

Quantity:	50 µg
Target:	Growth Hormone Receptor (GHR)
Protein Characteristics:	AA 27-264
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This Growth Hormone Receptor protein is labelled with Fc Tag.

Product Details

Sequence:	AA 27-264
Characteristics:	This protein carries a human IgG1 Fc tag at the C-terminus. The protein has a calculated MW of 54.3 kDa. As a result of glycosylation, the protein migrates as 66-85 kDa under reducing (R) condition, and 135-160 kDa under non-reducing (NR) condition (SDS-PAGE).
Purity:	>95 % as determined by SDS-PAGE.
Sterility:	0.22 µm filtered
Endotoxin Level:	Less than 1.0 EU per µg by the LAL method.

Target Details

Target:	Growth Hormone Receptor (GHR)
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Target Details

Alternative Name: [GHR \(GHR Products\)](#)

Background: Growth hormone receptor (GHR) is also known as somatotropin receptor, growth hormone-binding protein (GHBR), which belongs to the type I cytokine receptor family or Type 1 subfamily. GHR contains one fibronectin type-III domain. GHR / GHBR is expressed in various tissues with high expression in liver and skeletal muscle. The soluble form (GHBP) is produced by phorbol ester-promoted proteolytic cleavage at the cell surface (shedding) by ADAM17/TACE. GHR is receptor for pituitary gland growth hormone involved in regulating postnatal body growth. On ligand binding, couples to the JAK2/STAT5 pathway. The soluble form (GHBP) acts as a reservoir of growth hormone in plasma and may be a modulator/inhibitor of GH signaling.

Molecular Weight: 54.3 kDa

UniProt: [P10912](#)

Pathways: [NF-kappaB Signaling](#), [JAK-STAT Signaling](#), [Response to Growth Hormone Stimulus](#)

Application Details

Restrictions: For Research Use only

Handling

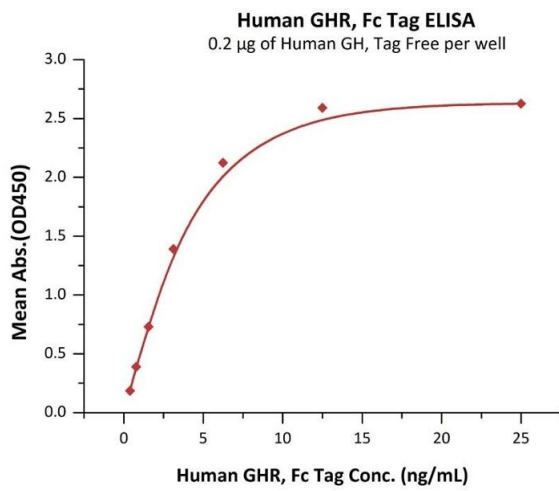
Format: Lyophilized

Buffer: PBS, pH 7.4

Handling Advice: Please avoid repeated freeze-thaw cycles.

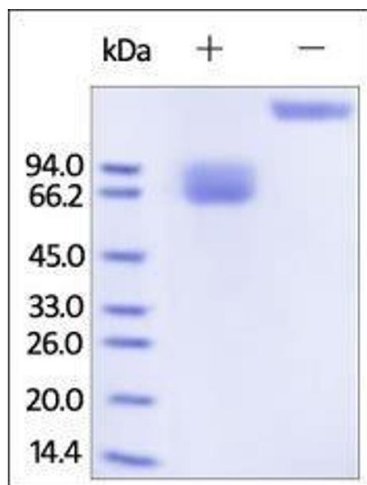
Storage: -20 °C

Storage Comment: 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).



ELISA

Image 1. Immobilized Human GH, Tag Free at 2 µg/mL (100 µL/well) can bind Human GHR, Fc Tag (ABIN2181157, ABIN2181156) with a linear range of 0.2-3 ng/mL (QC tested).



SDS-PAGE

Image 2. Human Growth Hormone R, Fc Tag on SDS-PAGE under reducing (R) and no-reducing (NR) conditions. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.