

Datasheet for ABIN2181160

Growth Hormone Receptor Protein (GHR) (AA 27-264) (His tag,Biotin)[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 His tag,Biotin.

Product Details

Brand:	MABSol@,UltraLys
Sequence:	AA 27-264
Specificity:	The primary amines in the side chains of lysine residues and the N-terminus of the protein are conjugated with biotins using standard chemical labeling method. A standard biotin reagent (13.5 angstroms) is used in this product.
Characteristics:	This protein carries a polyhistidine tag at the C-terminus. The protein has a calculated MW of 28.5 kDa. The protein migrates as 40-60 kDa on a SDS-PAGE gel under reducing (R) condition due to glycosylation.
Purity:	>90 % as determined by reduced SDS-PAGE.
Sterility:	0.22 µm filtered

Product Details

Endotoxin Level: Less than 1.0 EU per µg by the LAL method.

Target Details

Target: Growth Hormone Receptor (GHR)

Alternative Name: Growth Hormone R ([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: 29.6 kDa

NCBI Accession: [NP_000154](#)

UniProt: [P10912](#)

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

Application Details

Comment: A chemically labeled biotinylated protein with ultra sensitivity.
The product is produced using a chemical labeling approach. The primary amines in the side chains of lysine residues and the N-terminus of protein are conjugated with biotins.
Chemical labeling usually results in multiple biotin attachment on a single protein molecule, which could potentially lead to higher detection sensitivity.

Restrictions: For Research Use only

Handling

Format: Lyophilized

Buffer: PBS, pH 7.4

Handling Advice: Please avoid repeated freeze-thaw cycles.

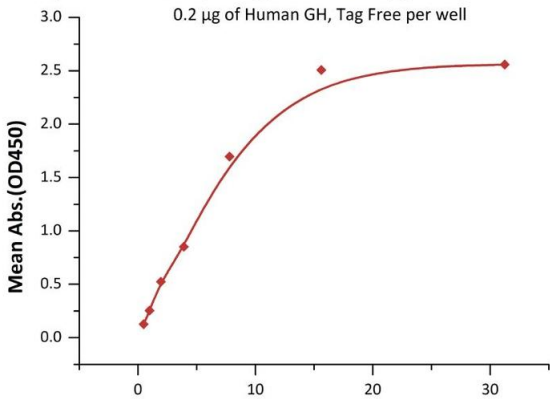
Handling

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).

Images

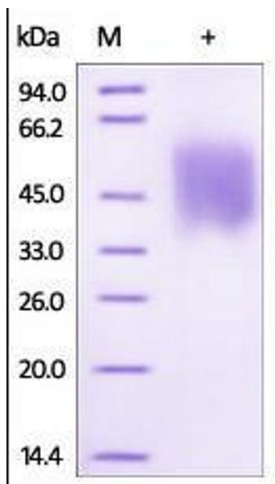
Biotinylated Human GHR, His Tag, ultra sensitivity (primary amine labeling) ELISA



Biotinylated Human GHR, His Tag, ultra sensitivity (primary amine labeling) ELISA Conc. (ng/mL)

ELISA

Image 1. Immobilized Human GH, Tag Free at 2 µg/mL (100 µL/well) can bind Biotinylated Human GHR, His Tag, ultra sensitivity (primary amine labeling) (ABIN2181160, ABIN2693591) with a linear range of 0.5-8 ng/mL (QC tested).



SDS-PAGE

Image 2. Biotinylated Human Growth Hormone R on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.