

Datasheet for ABIN2181159

Growth Hormone Receptor Protein (GHR) (AA 27-264) (His tag)[Go to Product page](#)

2 Images

2 Publications

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.

Product Details

Sequence:	AA 27-264
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 40-50 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.
Purity:	>90 % 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:	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

Restrictions:	For Research Use only
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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).

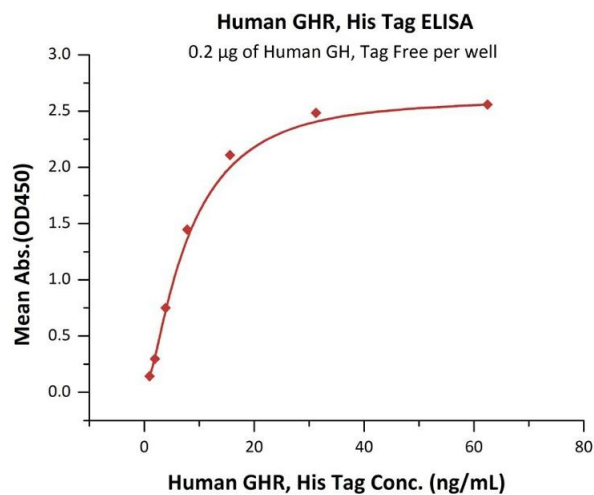
Publications

Product cited in:	Igarashi, Miura, Williams, Jaksch, Kadowaki, Yamauchi, Guarente: "NAD ⁺ supplementation rejuvenates aged gut adult stem cells." in: Aging cell , Vol. 18, Issue 3, pp. e12935, (2020) (PubMed).
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Park, Choi, Kim, Cheong, Jeong: "AhR activation by 6-formylindolo[3,2-b]carbazole and 2,3,7,8-tetrachlorodibenzo-p-dioxin inhibit the development of mouse intestinal epithelial cells." in: **Environmental toxicology and pharmacology**, Vol. 43, pp. 44-53, (2017) ([PubMed](#)).

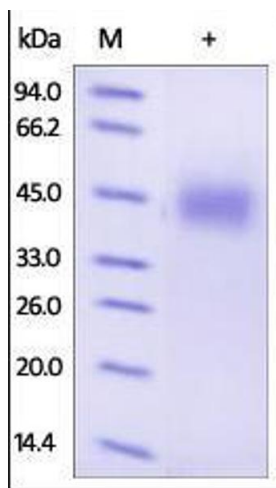
Das, Png, Oancea, Hasnain, Lourie, Proctor, Eri, Sheng, Crane, Florin, McGuckin: "Glucocorticoids alleviate intestinal ER stress by enhancing protein folding and degradation of misfolded proteins." in: **The Journal of experimental medicine**, Vol. 210, Issue 6, pp. 1201-16, (2013) ([PubMed](#)).

Images



ELISA

Image 1. Immobilized Human GH, Tag Free at 2 µg/mL (100 µL/well) can bind Human GHR, His Tag (ABIN2181159,ABIN2181158) with a linear range of 1-8 ng/mL (QC tested).



SDS-PAGE

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