

Growth Hormone Receptor Recombinant Protein | GHR recombinant protein

Recombinant Human Growth Hormone Receptor Protein (hFc Tag), HPLC-verified

CATALOG # AAA259298	HOST HEK293 Cells	REACTIVITY Human
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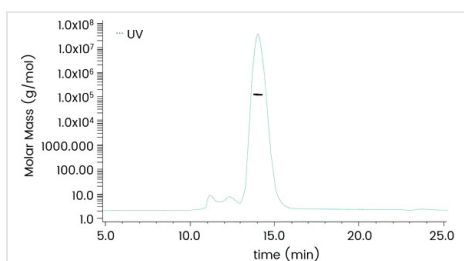
PRODUCT SYNONYMS

Growth Hormone Receptor; Recombinant Human Growth Hormone Receptor Protein (hFc Tag); HPLC-verified; Human Growth Hormone Receptor Protein (Fc Tag); growth hormone receptor; GHBP Protein; Human; GHIP Protein; GHR recombinant protein

PRODUCT SPECIFICATIONS

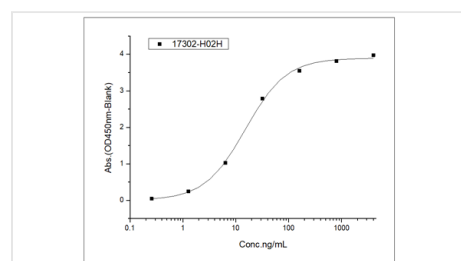
Host	HEK293 Cells
Reactivity	Human
Purity/Purification	>= 90% as determined by SDS-PAGE. >= 90% as determined by SEC-HPLC. >= 90% as determined by SEC-MALS. (Routinely tested)
Form/Format	Lyophilized from sterile PBS, pH 7.4. Normally 5%-8% trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.
Sequence	Ala27-Tyr2 64
Tag	C-human IgG1-Fc
Predicted N Terminal	Ala 27
Endotoxin	< 1.0 EU perug of the protein as determined by the LAL method
Protein Construction	A DNA sequence encoding the Human GHR (P10912)(Ala27-Tyr264) was expressed with the Fc region of human IgG1 at the C-terminus.
Activity	Immobilized Recombinant Human GH1 Protein at 2ug/mL (100uL/well) can bind Recombinant Human Growth Hormone Receptor Protein (Fc Tag), the EC50 is 8-26ng/mL.
Preparation and Storage	Samples are stable for up to twelve months from date of receipt at -20 degree C to -80 degree C. Store it under sterile conditions at -20 degree C to -80 degree C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.

IMAGES



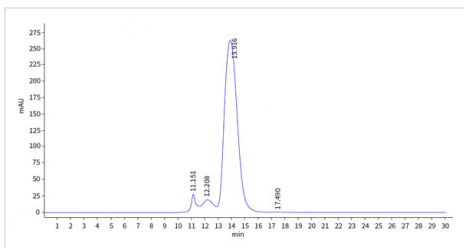
Application Data

Recombinant Human Growth Hormone Receptor Protein, Fc Tag, HPLC-verified.

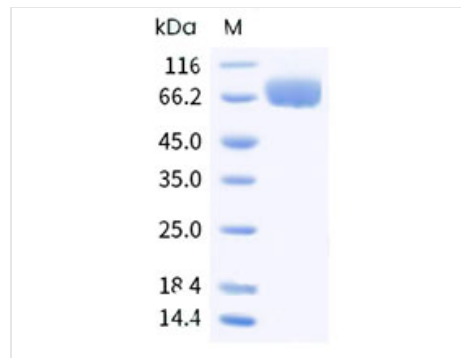


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Immobilized Recombinant Human GH1 Protein at 2ug/mL (100uL/well) can bind Recombinant Human Growth Hormone Receptor Protein (Fc Tag) (#AAA259298), the EC50 is 8-26ng/mL.



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ADDITIONAL INFORMATION

Related Product Information for GHR recombinant protein	Growth hormone receptor, also known as GH receptor and GHR, is a single-pass type I membrane protein which belongs to the type I cytokine receptor family and type 1 subfamily. GHR contains one fibronectin type-III domain. Growth hormone receptor/GHR is expressed in various tissues with high expression in liver and skeletal muscle. Isoform 4 of GHR is predominantly expressed in kidney, bladder, adrenal gland and brain stem. Isoform 1 expression of GHR in placenta is predominant in chorion and decidua. Isoform 4 is highly expressed in placental villi. Isoform 2 of GHR is expressed in lung, stomach and muscle. Growth hormone receptor/GHR is a receptor for pituitary gland growth hormone. It is involved in regulating postnatal body growth. On ligand binding, it couples to the JAK2/STAT5 pathway. Isoform 2 of GHR up-regulates the production of GHBP and acts as a negative inhibitor of GH signaling. Defects in GHR are a cause of Laron syndrome (LARS) which is a severe form of growth hormone insensitivity characterized by growth impairment, short stature, dysfunctional growth hormone receptor, and failure to generate insulin-like growth factor I in response to growth hormone. Defects in GHR may also be a cause of idiopathic short stature autosomal (ISSA) which is defined by a subnormal rate of growth.
References	Leun. DW. e. al.. 1987. Nature. 330:537-43. Sobrie. M-L. e. al.. 1997. . Cli. Endocrinol. Metab. 82. 435-7. Enber. B. e. al.. 2000. Eu. . Endocrinol. 143. 71-6. Pante. J. e. al.. 2000. . Bio. Chem. 275. 18664-9. Jorg. AAL. e. al.. 2004. Cli. Endocrinol. (Oxf.. 60. 36-40.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4503993
NCBI GeneID	2690
NCBI Accession #	NP_000154.1
NCBI GenBank Nucleotide #	NM_000163.4
UniProt Accession #	P10912; Q9HCX2
Molecular Weight	71,500 Da
NCBI Official Full Name	growth hormone receptor isoform 1
NCBI Official Synonym Full Names	growth hormone receptor
NCBI Official Symbol	GHR
NCBI Official Synonym Symbols	GHBP
NCBI Protein Information	growth hormone receptor; GH receptor; serum binding protein; somatotropin receptor; growth hormone binding protein
UniProt Protein Name	Growth hormone receptor
UniProt Gene Name	GHR
UniProt Synonym Gene Names	GH receptor; GH-binding protein; GHBP
UniProt Entry Name	GHR_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/ghr-recombinant-protein-hek293-cells/259298>