

Human CellExp GHR /Growth Hormone Receptor, human recombinant protein

GHR, GHBP, GH receptor Catalog # PBV11098r

Specification

Human CellExp GHR /Growth Hormone Receptor, human recombinant protein - Product info

Primary Accession Calculated MW

P10912

This protein is fused with polyhistidine tag at the C-terminus, and has a calculated MW of 28.5 kDa. The predicted N-terminus is Ala 27. DTT-reduced Protein migrates as 40-50 kDa in SDS-PAGE due to glycosylation. KDa

Human CellExp GHR /Growth Hormone Receptor, human recombinant protein - Additional Info

- Gene ID Gene Symbol **Other Names** GHR, GHBP, GH receptor
- Gene Source Source Assay&Purity Assay2&Purity2 Recombinant Results

2690 GHR

Human HEK293 cells SDS-PAGE; ≥95% N/A; Yes The bioactivity is measured by its binding ability to human GH in a SPR assay. Covalently immobilized Recombinant Human GHR Protein can bind human growth hormone protein with affinity constant of 1.28 ±0.16 nM range.

Target/Specificity GHR /Growth Hormone Receptor

Application Notes

Centrifuge the vial prior to opening. Reconstitute in sterile PBS, pH 7.4 to a concentration of 50 μ g/ml. Do not vortex. This solution can be stored at 2-8°C for up to 1 month. For extended storage, it is recommended to store at -20°C.

Format Lyophilized

Storage

-20°C; Lyophilized from 0.22 μ m filtered solution in PBS, pH 7.4. Normally Mannitol or Trehalose is added as protectants before lyophilization.



Human CellExp GHR /Growth Hormone Receptor, human recombinant protein - Protocols

Provided below are standard protocols that you may find useful for product applications.

- <u>Western Blot</u>
- <u>Blocking Peptides</u>
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- <u>Cell Culture</u>

Human CellExp GHR /Growth Hormone Receptor, human recombinant protein - Images

Human CellExp GHR /Growth Hormone Receptor, human recombinant protein - 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.