

Datasheet for ABIN3133132

## Growth Hormone Receptor Protein (GHR) (AA 25-650) (rho-1D4 tag)



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### Overview

Quantity:	1 mg
Target:	Growth Hormone Receptor (GHR)
Protein Characteristics:	AA 25-650
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Growth Hormone Receptor protein is labelled with rho-1D4 tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA, Crystallization (Crys)

### Product Details

Sequence:	<p>TPATLGKASP VLQRINPSLG TSSSGKPRFT KCRSPELETF SCYWTEGDNP DLKTPGSIQL</p> <p>YYAKRESQRQ AARIAHEWTQ EWKECPDYVS AGKNSCYFNS SYTSIWIPYC IKLTNGDLL</p> <p>DQKCFTVDEI VQPDPIGLN WTLNLSLTG IRGDIQVSWQ PPPNADVLKG WIILEYEQY</p> <p>KEVNESKWKV MGPIWLTYP VYSLRMDKEH EVRVRSRQRS FEKYSEFSEV LRVIFPQTN</p> <p>LEACEEDIQF PWFLIIFGI FGVAVMLFV IFSKQQRIM LILPPVPVPK IKGIDPDLK EGKLEEVNT</p> <p>LG IHDNYKPD FYNDDSWVEF IELDIDEADV DEKTEGSDTD RLLSNDHEKS AGILGAKDDD</p> <p>SGRTSCYDPD ILDTDFHTSD MCDGTLKFRQ SQKLNMEADL LCLDQKNLKN LPYDASLGSL</p> <p>HPSITQTVEE NKPQPLSSE TEATHQLAST PMSNPTSLAN IDFYAQVSDI TPAGGDVLS</p> <p>GQKIKAGIAQ GNTQREVATP CQENYSMNSA YFCESDAKKC IAVARRMEAT SCIKPSFNQE</p> <p>DIYITTESLT TTAQMSETAD IAPDAEMSVP DYTTVHTVQS PRGLILNATA LPLPDKKNFP</p> <p>SSCGYVSTDQ LNKIMQ</p>
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**Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a**

**special request, please contact us.**

Characteristics:	<ul style="list-style-type: none"><li>• Made in Germany - from design to production - by highly experienced protein experts.</li><li>• Mouse Ghr Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.</li><li>• State-of-the-art algorithm used for plasmid design (Gene synthesis).</li></ul> <p>This protein is a made to order protein and will be made for the first time for your order. Our experts in the lab will ensure that you receive a correctly folded protein.</p> <p>The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.</p> <p>In the unlikely event that the protein cannot be expressed or purified we do not charge anything (other companies might charge you for any performed steps in the expression process for custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression experiments or purification optimization).</p> <p>When you order this made-to-order protein you will only pay upon receipt of the correctly folded protein. With no financial risk on your end you can rest assured that our experienced protein experts will do everything to make sure that you receive the protein you ordered.</p> <p>The concentration of our recombinant proteins is measured using the absorbance at 280nm. The protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer.</p> <p>The concentration of the protein is calculated using its specific absorption coefficient. We use the ExPASy's ProtParam tool to determine the absorption coefficient of each protein.</p>
Purification:	<p>Three step purification of membrane proteins expressed in baculovirus infected SF9 insect cells:</p> <ol style="list-style-type: none"><li>1. Membrane proteins are fractionated by ultracentrifugation and subsequently solubilized with different detergents (detergent screen). Samples are analyzed by Western blot.</li><li>2. The best performing detergent is used for solubilization and the proteins are purified via their rho1D4 tag via two rho1D4 antibody columns: one DTT resistant, the other one not. Eluate fractions are analyzed by Western blot.</li><li>3. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.</li></ol>
Purity:	>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Sterility:	0.22 µm filtered
Endotoxin Level:	Protein is endotoxin-free.

## Product Details

Grade: Crystallography grade

## Target Details

Target:	Growth Hormone Receptor (GHR)
Alternative Name:	Ghr ( <a href="#">GHR Products</a> )
Background:	Receptor for pituitary gland growth hormone involved in regulating postnatal body growth. On ligand binding, couples to, and activates the JAK2/STAT5 pathway (By similarity). {ECO:0000250}., The soluble form (GHBP) acts as a reservoir of growth hormone in plasma and may be a modulator/inhibitor of GH signaling.
Molecular Weight:	71.5 kDa Including tag.
UniProt:	<a href="#">P16882</a>
Pathways:	<a href="#">NF-kappaB Signaling</a> , <a href="#">JAK-STAT Signaling</a> , <a href="#">Response to Growth Hormone Stimulus</a>

## Application Details

Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Comment:	Protein has not been tested for activity yet. In cases in which it is highly likely that the recombinant protein with the default tag will be insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible options with you in detail to assure that you receive your protein of interest.
Restrictions:	For Research Use only

## Handling

Format:	Liquid
Buffer:	100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)