

Product datasheet

# Recombinant Human Glucocorticoid Receptor protein ab158585

1 Image

Description

<b>Product name</b>	Recombinant Human Glucocorticoid Receptor protein
<b>Expression system</b>	Wheat germ
<b>Protein length</b>	Full length protein
<b>Animal free</b>	No
<b>Nature</b>	Recombinant
<b>Species</b>	Human
<b>Sequence</b>	<p>MDSKESLTPGREENPSSVLAQERGDVMDFYKTLRGGAT            VKVSASSPSLAV            ASQSDSKQRRLLVDFPKGSVSNAQQPDLSKAVSLMGL            YMGETETKVMGN            DLGFPQQGQISLSSGETDLKLLSESIANLNRSTSVPENPK            SSASTAVSAA            PTEKEFPKTHSDVSSEQQHLKGQTGTNGGNVKLYTTDQS            TFDILQDLEFS            SGSPGKETNESPWRSDLLIDENCLLSPLAGEDDSFLLEG            NSNEDCKPLIL            PDTKPKIKDNGDLVLSSPSNVTLQVQKTEKEDFIELCTPG            VIKQEKLGTV            YCQASFPGANIIGNKMSAISVHGVSTSGGQMYHYDMNTAS            LSQQQDQKPI            FNVIPPIVGSSENWNRQCQSGDDNLTSLGTLNFPGRTVFS            NGYSSPSMRP            DVSSPPSSSSTATTGPPPKLCLVCSDEASGCHYGVLTCG            SCKVFFKRAVE            GQHNYLCAGRNDCCIIRRNKCPACRYRKCLQAGMNLEA            RKTKKKIKGI            QQATTGVSQETSENPKNKTMPTLPQLTPTLVSLLEVIP            EVLYAGYDS            SVPDSTWRIMTTLNMLGGRQVIAAVKWAKAIPGFRNLHLD            DQMTLLQYSW            MFLMAFALGWRSYRQSSANLLCFAPDLIINEQRMTLPCMY            DQCKHMLYVS            SELHRLQVSYEEYLCMKTLTLLSSVPKDGLKSQELFDEIR</p>

MTYKELGKA  
MKREGNSSQNWQRFYQLTKLLDSMHEVVENLLNYCFQTF  
LDKTMSIEFP EMLAEITNQIPKYSNGNIKLLFHQK

**Amino acids** 1 to 777  
**Tags** GST tag N-Terminus

## Specifications

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Our [Abpromise guarantee](#) covers the use of **ab158585** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

**Applications** Western blot  
ELISA  
**Form** Liquid

## Additional notes

## Preparation and Storage

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**Stability and Storage** Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles.  
pH: 8.00  
Constituents: 0.31% Glutathione, 0.79% Tris HCl

## General Info

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**Function** Receptor for glucocorticoids (GC). Has a dual mode of action: as a transcription factor that binds to glucocorticoid response elements (GRE) and as a modulator of other transcription factors. Affects inflammatory responses, cellular proliferation and differentiation in target tissues. Could act as a coactivator for STAT5-dependent transcription upon growth hormone (GH) stimulation and could reveal an essential role of hepatic GR in the control of body growth. Involved in chromatin remodeling. Plays a significant role in transactivation. Involved in nuclear translocation.

**Tissue specificity** Widely expressed. In the heart, detected in left and right atria, left and right ventricles, aorta, apex, intraventricular septum, and atrioventricular node as well as whole adult and fetal heart.

**Involvement in disease** Defects in NR3C1 are a cause of glucocorticoid resistance (GCRES) [MIM:138040]; also known as cortisol resistance. It is a hypertensive, hyperandrogenic disorder characterized by increased serum cortisol concentrations. Inheritance is autosomal dominant.

**Sequence similarities** Belongs to the nuclear hormone receptor family. NR3 subfamily.  
Contains 1 nuclear receptor DNA-binding domain.

**Domain** Composed of three domains: a modulating N-terminal domain, a DNA-binding domain and a C-terminal ligand-binding domain.

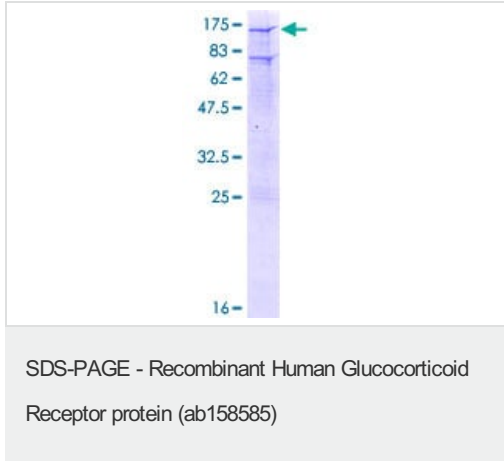
**Post-translational modifications** Increased proteasome-mediated degradation in response to glucocorticoids. Phosphorylated in the absence of hormone; becomes hyperphosphorylated in the presence of glucocorticoid. The Ser-203-phosphorylated form is mainly cytoplasmic, and the Ser-211-phosphorylated form is nuclear. Transcriptional activity correlates with the amount of phosphorylation at Ser-211.  
Sumoylated; this reduces transcription transactivation.

Ubiquitinated; restricts glucocorticoid-mediated transcriptional signaling.

### Cellular localization

Cytoplasm. Nucleus. Cytoplasmic in the absence of ligand, nuclear after ligand-binding and Nucleus. Localized largely in the nucleus.

### Images



ab158585 on a 12.5% SDS-PAGE stained with Coomassie Blue.

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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