

Active Recombinant Human NR3C1 Protein, His-tagged

Cat. No. NR3C1-101H Lot. No. (See product label)

SPECIFICATION

Product Overview	Active Recombinant Human NR3C1 Protein(41-184 aa), fused with N-terminal His tag, was expressed in E.coli.
Species	Human
Source	E.coli
ProteinLength	41-184 aa
Form	PBS, pH7.4, containing 0.01% SKL, 5%Trehalose.
Bio-activity	Glucocorticoid Receptor (GR) is a member of the steroid receptor superfamily, which includes receptors for other steroid hormones such as estrogens, progestogens, androgens and mineralocorticoids. GR is widely distributed in various types of human cells, especially in liver, muscle, adipose tissue, lung, brain and other organs. GR plays a role in signaling within cells. When glucocorticoids enter cells and bind to GR, GR undergoes conformational changes that activate its transcriptional activity. It has been identified that the binding of Heat Shock 70kDa Protein 4 (HSPA4) to GR plays a key role in glucocorticoid signaling, which not only participates in the stabilization and activation of receptors, but also may affect the effect of drugs. Thus a functional binding ELISA assay was conducted to detect the interaction of recombinant human GR and recombinant human HSPA4. Briefly, GR was diluted serially in PBS with 0.01% BSA (pH 7.4). Duplicate samples of 100 µl were then transferred to HSPA4-coated microtiter wells and incubated for 1h at 37°C. Wells were washed with PBST

 Tel: 1-631-559-9269 1-516-512-3133

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and incubated for 1h with anti-GR pAb, then aspirated and washed 3 times. After incubation with HRP labelled secondary antibody for 1h at 37°C, wells were aspirated and washed 5 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37 °C. Finally, add 50 µL stop solution to the wells and read at 450/630 nm immediately. The binding activity of recombinant human GR and recombinant human HSPA4 is 5.1 ug/mL.

Molecular Mass	16.4 kDa
Endotoxin	<1.0EU per 1µg (determined by the LAL method).
Purity	>95%
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Reconstitution	Reconstitute in 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	NR3C1 nuclear receptor subfamily 3, group C, member 1 (glucocorticoid receptor) [Homo sapiens]
Official Symbol	NR3C1
Synonyms	NR3C1; nuclear receptor subfamily 3, group C, member 1 (glucocorticoid receptor); GRL, nuclear receptor subfamily 3, group C, member 1; glucocorticoid receptor; GR; glucocorticoid nuclear receptor variant 1; GCR; GRL; GCCR;
Gene ID	2908

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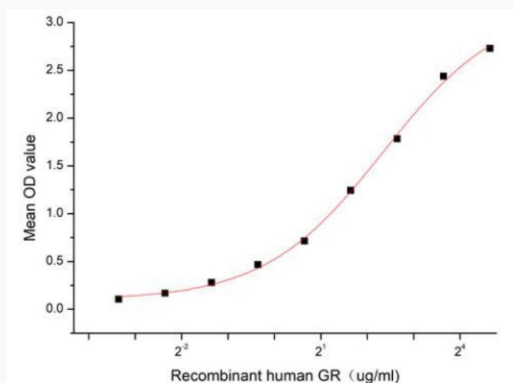
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mRNA Refseq [NM_000176](#)

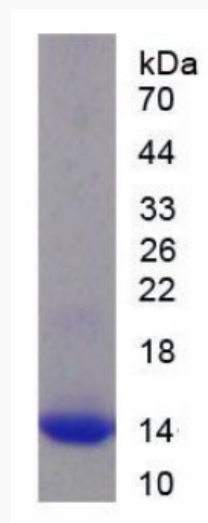
Protein Refseq [NP_000167](#)

UniProt ID [P04150](#)

Activity



SDS-PAGE



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