

Recombinant Human NR3C1 Protein, His-tagged

Cat. No. NR3C1-2750H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human NR3C1 Protein (Val521-Lys777) with N-His tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Val521-Lys777
Description	This gene encodes glucocorticoid receptor, which can function both as a transcription factor that binds to glucocorticoid response elements in the promoters of glucocorticoid responsive genes to activate their transcription, and as a regulator of other transcription factors. This receptor is typically found in the cytoplasm, but upon ligand binding, is transported into the nucleus. It is involved in inflammatory responses, cellular proliferation, and differentiation in target tissues. Mutations in this gene are associated with generalized glucocorticoid resistance. Alternative splicing of this gene results in transcript variants encoding either the same or different isoforms. Additional isoforms resulting from the use of alternate in-frame translation initiation sites have also been described, and shown to be functional, displaying diverse cytoplasm-to-nucleus trafficking patterns and distinct transcriptional activities (PMID:15866175).
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 33.7 kDa

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	Accurate Molecular Mass: 31 kDa
Purity	> 90%
Applications	Positive Control; Immunogen; SDS-PAGE; WB.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) 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 [Homo sapiens (human)]
Official Symbol	NR3C1
Synonyms	NR3C1; nuclear receptor subfamily 3 group C member 1; GR; GCR; GRL; GCCR; GCRST; glucocorticoid receptor; nuclear receptor subfamily 3 group C member 1 variant hGR-B(54); nuclear receptor subfamily 3 group C member 1 variant hGR-B(77); nuclear receptor subfamily 3 group C member 1 variant hGR-B(93); nuclear receptor subfamily 3, group C, member 1 (glucocorticoid receptor)

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Gene ID	2908
mRNA Refseq	NM_000176
Protein Refseq	NP_000167
MIM	138040
UniProt ID	P04150

