

Recombinant Human NR3C1, His-tagged

Cat. No. NR3C1-28739TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length human Glucocorticoid Receptor expressed in a baculovirus system with His tag; 1-777 amino acids, 86kDa.
Species	Human
ProteinLength	1-777 a.a.
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).
Conjugation	HIS
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

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	and fetal heart.
Form	Liquid
Storage buffer	Preservative: None Constituents: 20% Glycerol, 20mM Tris Cl, 100mM Potassium chloride, 1mM DTT, 0.2mM EDTA, pH 8.0
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequence Similarities	Belongs to the nuclear hormone receptor family. NR3 subfamily. Contains 1 nuclear receptor DNA-binding domain.
Full Length	Full L.

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;
Gene ID	2908
mRNA Refseq	NM_000176
Protein Refseq	NP_000167

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Uniprot ID	P04150
Chromosome Location	5q31-q32
Pathway	Adipogenesis, organism-specific biosystem; Androgen Receptor Signaling Pathway, organism-specific biosystem; BMAL1:CLOCK/NPAS2 Activates Gene Expression, organism-specific biosystem; Circadian Clock, organism-specific biosystem; FOXA2 and FOXA3 transcription factor networks, organism-specific biosystem;
Function	Hsp70 protein binding; Hsp90 protein binding; chromatin binding; double-stranded DNA binding; glucocorticoid receptor activity;

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