Active Recombinant Human NR3C1, His-tagged

Cat. No. NR3C1-8490H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human NR3C1, fused with His tag, was expressed in Sf21 Cells.
Species	Human
Source	Sf21 Cells
Description	Glucocorticoids are a vital class of steroid hormones that mediate profound and diverse physiological effects in vertebrates from fish to man. Although named for their role in glucose homeostasis, glucocorticoids are eminently important throughout physiology, with regulatory roles in development, metabolism, neurobiology, programmed cell death, and many other functions. In addition to these far-reaching physiological roles, corticosteroids are among the most widely prescribed class of drugs in the world. The physiological response and sensitivity to glucocorticoids varies among species, individuals, tissues, cell types, and even during the cell cycle. Additionally, several pathological conditions lead to, or are a result, of glucocorticoid resistance or hypersensitivity. The ligand-activated GR also interacts with a multitude of transcription factors such as c-jun, nuclear factor-B (NF-B), the TFIID complex, STAT5, as well as a host of coactivators. In addition, the GR interacts with numerous cytosolic proteins including chaperones, kinases, phosphatases, nuclear shuttling proteins, and the proteasome.
Form	20 mM Tris-Cl, pH 7.9, 20% Glycerol, 100 mM KCl, 1 mM DTT and 0.2 mM EDTA
Bio-activity	1 unit equals 1 ng purified protein. 20 units are sufficient for a gel-mobility shift assay

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	and 100 units are sufficient for a protein-protein interactions assay.
Purity	>95% as determined by SDS-PAGE
Storage	-80 °C
Concentration	250 μg/ml
Shipping	Dry Ice

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
mRNA Refseq	NM_000176
Protein Refseq	NP_000167
UniProt ID	P04150
Chromosome Location	5q31-q32

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Pathway	Adipogenesis, organism-specific biosystem; Androgen Receptor Signaling Pathway, organism-specific biosystem; BMAL1:CLOCK/NPAS2 Activates Circadian Expression, organism-specific biosystem; Circadian Clock, organism-specific biosystem; FOXA2 and FOXA3 transcription factor networks, organism-specific biosystem; Gene Expression, organism-specific biosystem; Generic Transcription Pathway, organism-specific biosystem;
Function	Hsp70 protein binding; Hsp90 protein binding; chromatin binding; double-stranded DNA binding; glucocorticoid receptor activity; metal ion binding; protein binding; protein heterodimerization activity; protein homodimerization activity; receptor activity; receptor tyrosine kinase binding; sequence-specific DNA binding; sequence-specific DNA binding transcription factor activity; steroid binding; zinc ion binding;

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