

# Recombinant Human Glucocorticoid receptor LBD/Hsp90 complex, GST-tagged

**Cat. No.** NR3C1-104H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
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| <b>Product Overview</b> | Recombinant Human GST-tagged Glucocorticoid receptor ligand-binding domain (GR-LBD) consists of a 218 a.a. GST tag, a 30 a.a. flexible linker and a 275 a.a. GR-LBD, Acc# NP_000167, amino acids 503-777. It was produced in complex with human Hsp90 to facilitate native protein conformation and advanced performance in ligand binding and coactivator peptide recruitment assays. GST tagged GR-LBD, human Hsp90 and human Hsc70 are major components of the complex. |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Source</b>           | Sf9 Cells                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Form</b>             | 20 mM Na-P pH 8.0, 40 mM KCl, 20 mM Na <sub>2</sub> MoO <sub>4</sub> , 5 mM DTT, 7 mM reduced glutathione, 15% glycerol.                                                                                                                                                                                                                                                                                                                                                   |
| <b>Purity</b>           | >80%                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Applications</b>     | Ligand binding and coactivator peptide recruitment assays.                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Storage</b>          | Immediately store at -80°C. Avoid freeze-thaw cycles. While working, please keep sample on ice.                                                                                                                                                                                                                                                                                                                                                                            |

## GENE INFORMATION

|                  |                                                                                   |
|------------------|-----------------------------------------------------------------------------------|
| <b>Gene Name</b> | NR3C1 nuclear receptor subfamily 3, group C, member 1 (glucocorticoid receptor) [ |
|------------------|-----------------------------------------------------------------------------------|

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|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                            | Homo sapiens ]                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Official Symbol</b>     | NR3C1                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Synonyms</b>            | 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;                                                                                                                                                                                                 |
| <b>Gene ID</b>             | 2908                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>mRNA Refseq</b>         | NM_000176                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Protein Refseq</b>      | NP_000167                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>UniProt ID</b>          | P04150                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Chromosome Location</b> | 5q31-q32                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Pathway</b>             | 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; |
| <b>Function</b>            | 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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