

Recombinant Human Estrogen alpha receptor LBD/Hsp90 complex, GST-tagged

Cat. No. ESR1-102H **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Recombinant Human GST-tagged Estrogen alpha receptor ligand-binding domain (ER α -LBD) consists of a 218 a.a. GST tag, a 30 a.a. flexible linker and a 346 a.a. ER α -LBD, Acc# NP_000116, amino acids 250-595. It was produced in complex with human Hsp90 to facilitate native protein conformation and advanced performance in ligand binding and coactivator peptide recruitment assays. insect cells were co-infected with 2 recombinant baculoviruses, i.e. one which encodes GST-tagged ER α -LBD, and another which provides for expression of Hsp40, Hsc70, Hsp90, Hop and p23 human molecular chaperones. ER α -LBD/Hsp90 complex was purified from soluble cell fraction without the use of detergents, high-salt buffers or chaotropic agents and was formulated at about physiological conditions. GST tagged ER α -LBD, human Hsp90 and human Hsc70 are major components of the complex.

Species

Human

Source

Sf9 Cells

Form

20 mM Na-P pH 8.0, 40 mM KCl, 20 mM Na₂MoO₄, 5 mM DTT, 7 mM reduced glutathione, 15% glycerol.

Purity

>90%

Applications

Ligand binding and coactivatorpeptide recruitment assays.

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Storage Immediately store at -80°C. Avoid freeze-thaw cycles. While working, please keep sample on ice.

GENE INFORMATION

Gene Name [ESR1 estrogen receptor 1 \[Homo sapiens \]](#)

Official Symbol ESR1

Synonyms ESR1; estrogen receptor 1; ESR; estrogen receptor; Era; NR3A1; ER-alpha; estradiol receptor; estrogen nuclear receptor alpha; estrogen receptor alpha delta 4 +49 isoform; nuclear receptor subfamily 3 group A member 1; estrogen receptor alpha 3*,4,5,6,7*/822 isoform; estrogen receptor alpha delta 4*,5,6,7*/654 isoform; estrogen receptor alpha delta 4*,5,6,7,8*/901 isoform; estrogen receptor alpha delta 3*,4,5,6,7*/819-2 isoform; estrogen receptor alpha delta 3*,4,5,6,7*,8*/941 isoform; ER; ESRA; DKFZp686N23123;

Gene ID [2099](#)

mRNA Refseq [NM_000125](#)

Protein Refseq [NP_000116](#)

UniProt ID [P03372](#)

Chromosome Location 6q24-q27

Pathway Androgen Receptor Signaling Pathway, organism-specific biosystem; Endocrine and other factor-regulated calcium reabsorption, organism-specific biosystem; Endocrine and other factor-regulated calcium reabsorption, conserved biosystem; Estrogen

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signaling pathway, organism-specific biosystem; FOXA1 transcription factor network, organism-specific biosystem; FOXM1 transcription factor network, organism-specific biosystem; Gene Expression, organism-specific biosystem;

Function

DNA binding; beta-catenin binding; chromatin binding; core promoter sequence-specific DNA binding; enzyme binding; enzyme binding; estrogen receptor activity; estrogen receptor activity; estrogen response element binding; hormone binding; identical protein binding; ligand-activated sequence-specific DNA binding RNA polymerase II transcription factor activity; metal ion binding; nitric-oxide synthase regulator activity; protein binding; protein complex binding; receptor activity; sequence-specific DNA binding; sequence-specific DNA binding transcription factor activity; sequence-specific DNA binding transcription factor activity; steroid binding; steroid hormone receptor activity; steroid hormone receptor activity; transcription factor binding; type 1 metabotropic glutamate receptor binding; zinc ion binding;

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