

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 (ERα-LBD) consists of a 218 a.a. GST tag, a 30 a.a. flexible linker and a 346 a.a. ERα-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 ERα-LBD, and another which provides for expression of Hsp40, Hsc70, Hsp90, Hop and p23 human molecular chaperones. ERα-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 ERα-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 coactivator peptide 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;