

Recombinant Human ESR1, GST-tagged

Cat. No. ESR1-121H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human GST-tagged Estrogen receptor alpha 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, was expressed in baculovirus-infected insect cells and purified using affinity chromatography.
Species	Human
Source	Sf9 Cells
Description	Estrogen receptor alpha (ER α) is also known as NR3A1 (nuclear receptor subfamily 3, group A, member 1).
Form	50 mM Tris-HCl pH 8.0, 150 mM NaCl, 0.5 mM EDTA, 20 mM Na ₂ MoO ₄ , 7 mM reduced glutathione, 20% glycerol.
Purity	>90%
Applications	Ligand binding and coactivator peptide recruitment assays.
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]
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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 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;

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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;