

Recombinant Human Estrogen Receptor 1

Cat. No. ESR1-2639H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human estrogen receptor- β expressed in <i>S. frugiperda</i> insect cells. A hormone-inducible transcription factor that shares high homology with ER- α , especially in the DNA binding protein domain, suggesting that both receptors interact with related DNA response elements.
Species	Human
Source	<i>S. frugiperda</i>
Description	In the field of molecular biology, nuclear receptors are a class of proteins found within the interior of cells that are responsible for sensing the presence of steroid and thyroid hormones and certain other molecules. In response, these receptors work in concert with other proteins to regulate the expression of specific genes, thereby controlling the development, homeostasis, and metabolism of the organism.
Form	Liquid.
Formulation	In 400 mM KCl, 50 mM Bis-Tris-propane, 2 mM DTT, 1 mM EDTA, 10% glycerol, pH 9.0. DO NOT VORTEX.
Molar Mass	53000 Da.
Specific Activity	≥ 5000 units/mg protein.
Unit Definition	One unit is defined as the amount of estrogen receptor that will bind 1.0 pmol 3H-

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estradiol overnight at 4°C as measured by quantitation of estradiol:receptor complexes in a hydroxylapatite assay.

Purity ≥80% by SDS-PAGE.

Storage ≤ -70oC. Ship: Dry Ice Only.

GENE INFORMATION

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

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

Gene ID [2099](#)

mRNA Refseq [NM_000125](#)

Protein Refseq [NP_000116](#)

MIM [133430](#)

UniProt ID [P03372](#)

Chromosome Location 6q25.1

Pathway Gene Expression

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Function

estrogen response element binding; hormone binding; metal ion binding; nitric-oxide synthase regulator activity; protein binding; protein complex binding; sequence-specific DNA binding; steroid binding; steroid hormone receptor activity; transcription factor activity; transcription factor binding; zinc ion binding

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