

# Recombinant Human Estrogen Receptor 1

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

## SPECIFICATION

<b>Product Overview</b>	Recombinant human estrogen receptor- $\beta$ expressed in <i>S. frugiperda</i> insect cells. A hormone-inducible transcription factor that shares high homology with ER- $\alpha$ , especially in the DNA binding protein domain, suggesting that both receptors interact with related DNA response elements.
<b>Species</b>	Human
<b>Source</b>	<i>S. frugiperda</i>
<b>Description</b>	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.
<b>Form</b>	Liquid.
<b>Formulation</b>	In 400 mM KCl, 50 mM Bis-Tris-propane, 2 mM DTT, 1 mM EDTA, 10% glycerol, pH 9.0. DO NOT VORTEX.
<b>Molar Mass</b>	53000 Da.
<b>Specific Activity</b>	$\geq 5000$ units/mg protein.
<b>Unit Definition</b>	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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