

Recombinant Human ESR2, GST-tagged

Cat. No. ESR2-12558H Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant Human ESR2 protein, fused to GST-tag, was expressed in E.coli and purified by GSH-sepharose.

Species Human

Source E.coli

ProteinLength N-term-323a.a.

Description This gene encodes a member of the family of estrogen receptors and superfamily of nuclear receptor transcription factors. The gene product contains an N-terminal DNA binding domain and C-terminal ligand binding domain and is localized to the nucleus, cytoplasm, and mitochondria. Upon binding to 17beta-estradiol or related ligands, the encoded protein forms homo- or hetero-dimers that interact with specific DNA sequences to activate transcription. Some isoforms dominantly inhibit the activity of other estrogen receptor family members. Several alternatively spliced transcript variants of this gene have been described, but the full-length nature of some of these variants has not been fully characterized.

Storage The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.

Storage Buffer 1M PBS (58mM Na₂HPO₄, 17mM NaH₂PO₄, 68mM NaCl, pH8.) added with 100mM GSH and 1% Triton X-100, 15% glycerol.

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GENE INFORMATION

Gene Name ESR2 estrogen receptor 2 (ER beta) [Homo sapiens]

Official Symbol ESR2

Synonyms ESR2; estrogen receptor 2 (ER beta); estrogen receptor beta; Erb; NR3A2; estrogen receptor beta 4; estrogen nuclear receptor beta variant a; estrogen nuclear receptor beta variant b; nuclear receptor subfamily 3 group A member 2; ESRB; ESTRB; ER-BETA; ESR-BETA;

Gene ID 2100

mRNA Refseq NM_001040275

Protein Refseq NP_001035365

MIM 601663

UniProt ID Q92731

Chromosome Location 14q21-q22

Pathway Androgen Receptor Signaling Pathway, organism-specific biosystem; Gene Expression, organism-specific biosystem; Generic Transcription Pathway, organism-specific biosystem; Nuclear Receptor transcription pathway, organism-specific biosystem; Nuclear Receptors, organism-specific biosystem; Ovarian Infertility Genes, organism-specific biosystem; Plasma membrane estrogen receptor signaling, organism-specific biosystem;

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Function

DNA binding; core promoter sequence-specific DNA binding; enzyme binding; estrogen receptor activity; estrogen response element binding; ligand-activated sequence-specific DNA binding RNA polymerase II transcription factor activity; metal ion binding; pro

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