

Recombinant Human ESR1 Protein, His-tagged

Cat. No. ESR1-02H Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant Human ESR1 Protein with a His tag was expressed in E. coli.

Species Human

Source E.coli

Description

This gene encodes an estrogen receptor and ligand-activated transcription factor. The canonical protein contains an N-terminal ligand-independent transactivation domain, a central DNA binding domain, a hinge domain, and a C-terminal ligand-dependent transactivation domain. The protein localizes to the nucleus where it may form either a homodimer or a heterodimer with estrogen receptor 2. The protein encoded by this gene regulates the transcription of many estrogen-inducible genes that play a role in growth, metabolism, sexual development, gestation, and other reproductive functions and is expressed in many non-reproductive tissues. The receptor encoded by this gene plays a key role in breast cancer, endometrial cancer, and osteoporosis. This gene is reported to have dozens of transcript variants due to the use of alternate promoters and alternative splicing, however, the full-length nature of many of these variants remain uncertain.

Molecular Mass 23.1 kDa

AA Sequence

MGSSHHHHHSSGLVPRGSHMTMTLHTKASGMALLHQIQGNELEPLNRPQLKIPLE
RPLGEVYLDSSKPAVYNYPEGAAAYEFNAAAAANAQVYGQTGLPYGPGSEAAAFGS
NGLGGFPPLNSVSPSPLMLLHPPPQLSPFLQPHGQQVPYYLENESGYTVREAGPP

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AFYRPNSDNRRQGGRRERLASTNDKGSMMAMESAKETRYLEHHHHHH

Purity > 90% by SDS-PAGE

Storage Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

Concentration 0.5 mg/mL

Storage Buffer Supplied as a 0.2 µm filtered solution in PBS, pH 8.0

GENE INFORMATION

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

Official Symbol [ESR1](#)

Synonyms ESR1; estrogen receptor 1; ER; ESR; Era; ESRA; ESTRR; NR3A1; estrogen receptor; E2 receptor alpha; ER-alpha; estradiol receptor; estrogen nuclear receptor alpha; estrogen receptor alpha E1-E2-1-2; estrogen receptor alpha E1-N2-E2-1-2; nuclear receptor subfamily 3 group A member 1; oestrogen receptor alpha

Gene ID [2099](#)

mRNA Refseq [NM_000125](#)

Protein Refseq [NP_000116](#)

MIM [133430](#)

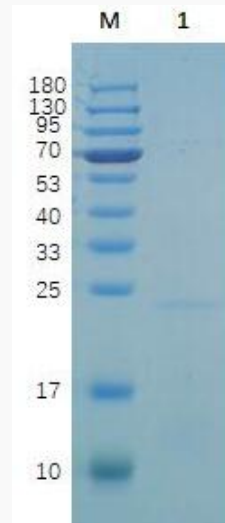
UniProt ID [P03372](#)

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SDS-PAGE



12% SDS-PAGE and WB analysis profile of purified ESR1

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