

Recombinant Human estrogen receptor 1 protein, Y537S Mutant, His-tagged

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

SPECIFICATION

Product Overview	Recombinant Human ESR1 protein (297-554 aa, Y537S Mutant) with His tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	297-554 aa
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.
Tag	His

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Molecular Mass	33.1 kDa
AA Sequence	MIKRSKKNSLALS LTADQMVSALLDAEPPILYSEYDPTRPFSEASMMGLLTNLADREL VHMINWAKRVPGFVDLTLHDQVHLLECAWLEILMIGLVWRSMEHGKLLFAPNLLLD RNQGKCV EGMVEIFDMLLATSSRFRMMNLQGEEFVCLKSIILLNSGVYTFLSSTLKSL EEKDHIHRVLDKITDTLIHLMAKAGLTLQQQHQR LAQLLLILSHIRHMSNKGMEHLYS MKCKNVVPLSDLLLEMLDAHRLHAPTS
Endotoxin	< 1.0 EU/μg of the protein by the LAL method.
Purity	> 90% by SDS-PAGE
Reconstitution	Reconstitute in 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.
Storage	Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months. Avoid repeated freeze-thaw cycles.
Storage Buffer	10mM PBS, pH7.4, containing 5% trehalose

GENE INFORMATION

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

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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

MIM 133430

UniProt ID P03372

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