

# Recombinant Human ESR1 Protein, Myc/DDK-tagged, C13 and N15-labeled

**Cat. No.** ESR1-1250H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | ESR1 MS Standard C13 and N15-labeled recombinant protein (NP_000116) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Description</b>      | This gene encodes an estrogen receptor, a ligand-activated transcription factor composed of several domains important for hormone binding, DNA binding, and activation of transcription. The protein localizes to the nucleus where it may form a homodimer or a heterodimer with estrogen receptor 2. Estrogen and its receptors are essential for sexual development and reproductive function, but also play a role in other tissues such as bone. Estrogen receptors are also involved in pathological processes including breast cancer, endometrial cancer, and osteoporosis. Alternative promoter usage and alternative splicing result in dozens of transcript variants, but the full-length nature of many of these variants has not been determined. |
| <b>Molecular Mass</b>   | 66 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>AA Sequence</b>      | MTMTLHTKASGMALLHQIQGNELEPLNRPQLKIPLERPLGEVYLDSSKPAVYNYPEG<br>AAYEFNAAAAANAQVYGQTGLPYGPGSEAAAFGSNGLGGFPPLNSVSPSPLMLLHP<br>PPQLSPFLQPHGQQVPYYLENESGYTVREAGPPAFYRPNSDNRRQGGRRERLAST<br>NDKGSMAMESAKETRYCAVCNDYASGYHYGVWSCEGCKAFFKRSIQGHNDYMCP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

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 45-1 Ramsey Road, Shirley, NY 11967, USA

ATNQCTIDKNRRKSCQACRLRKCYEVGMMKGGIRKDRRGGRMLKHKRQRDDGEG  
RGEVGSAGDMRAANLWPSPLMIKRSKKNLALSLTADQMVSALLDAEPPILYSEYDP  
TRPFSEASMMGLLTNLADRELVHMINWAKRVPGFVDLTLDQVHLLECAWLEILMIG  
LVWRSMEHPGKLLFAPNLLLDNRNQGKCEGMVEIFDMLLATSSRFRMMNLQGEFF  
VCLKSIILLNSGVYTFLSSTLKSLEEKDHIHRVLDKITDTLIHLMAGLTLQQHQRLA  
QLLLILSHIRHMSNKGMEHLYSMKCKNVVPLYDLLLEMLDAHRLHAPTSRGGASVEE  
TDQSHLATAGSTSSHSLQKYYITGEAEGFPATVTRTRPLEQKLISEEDLAANDILDYK  
DDDDKV

**Purity** > 80% as determined by SDS-PAGE and Coomassie blue staining

**Stability** Stable for 3 months from receipt of products under proper storage and handling conditions.

**Storage** Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

**Concentration** 50 µg/mL as determined by BCA

**Storage Buffer** 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

## 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

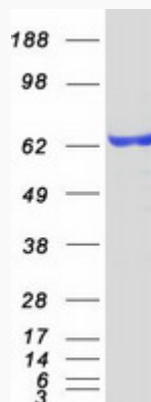
**mRNA Refseq** NM\_000125

**Protein Refseq** NP\_000116

**MIM** 133430

**UniProt ID** P03372

**SDS-PAGE**



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