

Recombinant Full Length Human ESR1 Protein, GST-tagged

Cat. No. ESR1-4720HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human ESR1 full-length ORF (AAI28574.1, 1 a.a. - 595 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	595 amino acids
Description	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. [provided by RefSeq, Mar 2014]
Molecular Mass	92.6 kDa
AA Sequence	MTMTLHTKASGMALLHQIQGNELEPLNRPQLKIPLERPLGEVYLDSSKPAVYNYPEGAAYEFNAAAAANAQVYGQTGLPYGPGSEAAAFGSNGLGGFPPLNSVSPSPLMLLHP PPQLSPFLQPHGQQVPYYLENESGYTVREAGPPAFYRPNSDNRRQGGRRERLAST

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NDKGSMAVESAKETRYCAVCNDYASGYHYGVWSCEGCKAFFKRSIQGHNDYMCP
 ATNQCTIDKNRRKSCQACRLRKCYEVGMMKGGIRKDRRGGRMLKHKRQRDDGEG
 RGEVGSAGDMRAANLWPSPLMIKRSKKNSLALSLTADQMVSALLDAEPPILYSEYDP
 TRPFSEASMMGLLTNLADRELVHMINWAKRVPGFVDLTLDQVHLLECAWLEILMIG
 LVWRSMEHPGKLLFAPNLLDRNQGKCVEGMVEIFDMLLATSSRFRMMNLQGEEF
 VCLKSIILLNSGVYTFLSSTLKSLEEKDHIHRVLDKITDTLIHLMAGLTLQQHQRLA
 QLLLILSHIRHMSNKGMEHLYSMKCKNVVPLYDLLLEMLDAHRLHAPTSRGGASVEE
 TDQSHLATAGSTSSHSLQKYYITGEAEGFPATV

Applications

Enzyme-linked Immunoabsorbent Assay
 Western Blot (Recombinant protein)
 Antibody Production
 Protein Array

Notes

Best use within three months from the date of receipt of this protein.

Storage

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name

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

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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