

Active Recombinant Full Length Human ESR1 Protein, C-Flag-tagged

Cat. No. ESR1-38HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human ESR1 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
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.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Bio-activity	Binding assay

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

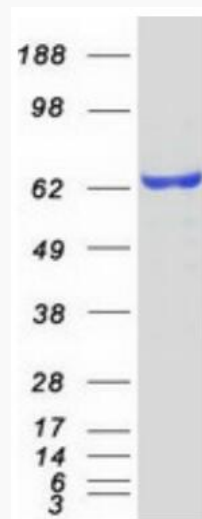
 45-1 Ramsey Road, Shirley, NY 11967, USA

Molecular Mass	66 kDa
AA Sequence	MTMTLHTKASGMALLHQIQGNELEPLNRPQLKIPLERPLGEVYLDSSKPAVYNYPEG AAYEFNAAAAANA QVYGQTGLPYGPGSEAAAFGSNGLGGFPPLNSVSPSPLMLLH PPPQLSPFLQPHGQQVPYYLENESGYT VREAGPPAFYRPNSDNRRQGGRRERLA STNDKGSMAMESAKETRYCAVCNDYASGYHYGVWSCEGCKAFFK RSIQGHNDYM CPATNQCTIDKNRRKSCQACRLRKCYEVGMMKGGIRKDRRGGRMLKHKRQRDDG EGRGEV GSAGDMRAANLWPSPLMIKRSKKNLALSALTADQMVSALLDAEPPILYSE YDPTRPFSEASMMGLLTNLA DRELVHMINWAKRVPGFVDLTLDHQQVHLLECAWLEI LMIGLVWRSMEHPGKLLFAPNLLLDNRNQGKCVES MVEIFDMLLATSSRFRMMNLQ GEEFVCLKSIILLNSGVYTFLLSSTLKSLEEKDHIHRVLDKITDTLIHLM AKAGLTLQQQ HQRLAQLLLILSHIRHMSNKGMEHLYSMKCKNNVPLYDLLLEMLDAHRLHAPTSRGG ASV EETDQSHLATAGSTSSHSLQKYYITGEAEGFPATVTRTRPLEQKLISEEDLAANDILD YKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome, Nuclear Hormone Receptor, Transcription Factors

Full Length

Full L.

GENE INFORMATION**Gene Name** ESR1 estrogen receptor 1 [Homo sapiens (human)]**Official Symbol** ESR1**Synonyms** ER; ESR; Era; ESRA; ESTRR; NR3A1**Gene ID** 2099**mRNA Refseq** NM_000125.4**Protein Refseq** NP_000116.2**MIM** 133430**UniProt ID** P03372 Tel: 1-631-559-9269 1-516-512-3133 Email: info@creative-biomart.com  Fax: 1-631-938-8127 45-1 Ramsey Road, Shirley, NY 11967, USA



Coomassie blue staining of purified ESR1 protein.

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