

Recombinant Full Length Human ESRRG Protein, C-Flag-tagged

Cat. No. ESRRG-1892HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human ESRRG Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	This gene encodes a member of the estrogen receptor-related receptor (ESRR) family, which belongs to the nuclear hormone receptor superfamily. All members of the ESRR family share an almost identical DNA binding domain, which is composed of two C4-type zinc finger motifs. The ESRR members are orphan nuclear receptors; they bind to the estrogen response element and steroidogenic factor 1 response element, and activate genes controlled by both response elements in the absence of any ligands. The ESRR family is closely related to the estrogen receptor (ER) family. They share target genes, co-regulators and promoters, and by targeting the same set of genes, the ESRRs seem to interfere with the ER-mediated estrogen response in various ways. It has been reported that the family member encoded by this gene functions as a transcriptional activator of DNA cytosine-5-methyltransferases 1 (Dnmt1) expression by direct binding to its response elements in the DNMT1 promoters, modulates cell proliferation and estrogen signaling in breast cancer, and negatively regulates bone morphogenetic protein 2-induced osteoblast differentiation and bone formation. Multiple alternatively spliced transcript variants have been identified, which mainly differ at the 5' end and some of which encode protein

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	isoforms differing in the N-terminal region.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	51.1 kDa
AA Sequence	MDSVELCLPESFSLHYEEELPCRMSNKDRHIDSSCSSFIKTEPSSPASLTDSVNHHS PGGSSDASGSYSS TMNGHQNGLDSPPLYPSAPILGGSGPVVRKLYDDCSSTIVEDP QTKCEYMLNSMPKRLCLVCGDIASGYHY GVASCEACKAFFKRTIQGNIEYSCPATN ECEITKRRRKSCQACRFMKCLKVGMLKEGVRLDRVRGGRQKY KRRIDAENSPYLN PQLVQPAKKPYNKIVSHLLVAEPEKIYAMPDPTVPDSDIKALTTLCDLADRELVII GW AKHIPGFSTLSLADQMSLLQSAWMEILILGVVYRSLSFEDELVYADDYIMDEDQSKLA GLLDLNNAIL QLVKKYKSMKLEKEEFVTLKAIALANSDSMHIEDVEAVQKLQDVLHEA LQDYEAGQHMEDPRRAGKMLMT LPLLRQTSTKAVQHFYNIKLEGKVPMHKLFLFM LEAKV TRTRPLEQKLISEEDLAANDILDYKDDDDKV
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 ESRRG estrogen related receptor gamma [Homo sapiens (human)]

Official Symbol ESRRG

Synonyms ERR3; ERRg; NR3B3; ERRgamma; ERR-gamma

Gene ID 2104

mRNA Refseq NM_001438.4

Protein Refseq NP_001429.2

MIM 602969

UniProt ID P62508



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Coomassie blue staining of purified ESRRG protein.

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