

# 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.
<b>Form</b>	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
<b>Molecular Mass</b>	51.1 kDa
<b>AA Sequence</b>	MDSVELCLPESFSLHYEEELPCRMSNKDRHIDSSCSSFIKTEPSSPASLTDSVNHHS PGGSSDASGSYSS TMNGHQNGLDSPPLYPSAPILGGSGPVRKLYDDCSSTIVEDP QTKCEYMLNSMPKRLCLVCGDIASGYHY GVASCEACKAFFKRTIQGNIEYSCPATN ECEITKRRRKSCQACRFMKCLKVGMLEKEGVRLDRVRGGRQKY KRRIDAENSPYLN PQLVQPAKKPYNKIVSHLLVAEPEKIYAMPDPTVPDSDIKALTTLCDLADRELVVII GW AKHIPGFSTLSLADQMSLLQSAWMEILILGVVYRSLSFEDELVYADDYIMDEDQSKLA GLLDLNAIL QLVKKYKSMKLEKEEFVTLKAIALANSDSMHIEDVEAVQKLQDVLHEA LQDYEAGQHMEDPRRAGKMLMT LPLLRTSTKAVQHFYNIKLEGKVPMHKLFLEM LEAKV TRTRPLEQKLISEEDLAANDILDYKDDDDKV
<b>Purity</b>	> 80% as determined by SDS-PAGE and Coomassie blue staining.
<b>Stability</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>Storage</b>	Store at -80 centigrade.
<b>Concentration</b>	>50 ug/mL as determined by microplate BCA method.
<b>Preparation</b>	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
<b>Protein Families</b>	Druggable Genome, Nuclear Hormone Receptor, Transcription Factors
<b>Full Length</b>	Full L.

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## GENE INFORMATION

<b>Gene Name</b>	ESRRG estrogen related receptor gamma [ Homo sapiens (human) ]
<b>Official Symbol</b>	ESRRG
<b>Synonyms</b>	ERR3; ERRg; NR3B3; ERRgamma; ERR-gamma
<b>Gene ID</b>	2104
<b>mRNA Refseq</b>	NM_001438.4
<b>Protein Refseq</b>	NP_001429.2
<b>MIM</b>	602969
<b>UniProt ID</b>	P62508



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Coomassie blue staining of purified ESRRG protein.

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