Recombinant Full Length Human ESRRG Protein

Cat. No. ESRRG-161HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human Estrogen Related Receptor gamma with N terminal proprietary tag; predicted MWt: 74.73 kDa including the tag.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	442 amino acids
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

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	identified, which mainly differ at the 5 end and some of which encode protein isoforms differing in the N-terminal region.
Form	Liquid
Molecular Mass	74.730kDa inclusive of tags
AA Sequence	MSNKDRHIDSSCSSFIKTEPSSPASLTDSVNHHSPGGS SDASGSYSSTMNGHQNG LDSPPLYPSAPILGGSGPVRKLY DDCSSTIVEDPQTKCEYMLNSMPKRLCLVCGDIA SGYHYG VASCEACKAFFKRTIQGNIEYSCPATNECEITKRRRKSCQ ACRFMKCLKV GMLKEGVRLDRVRGGRQKYKRRIDAENSPY LNPQLVQPAKKPLLWSDPADNKIVS HLLVAEPEKIYAMPD PTAPDSDIKALTTLCDLADRELVVIIGWAKHIPGFSTLSL ADQ MSLLQSAWMEILILGVVYRSLSFEDELVYADDYIMDE DQSKLAGLLDLNNAILQLVKK YKSMKLEKEEFVTLKAIAL ANSDSMHIEDVEAVQKLQDVLHEALQDYEAGQHMEDP RRA GKMLMTLPLLRQTSTKAVQHFYNIKLEGKVPMHKLLLEML EAKV
Purity	Proprietary Purification
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80 centigrade. Avoid freeze / thaw cycles.
Storage Buffer	pH: 8.00. Constituents:0.79% Tris HCl, 0.31% Glutathione.

GENE INFORMATION

Gene Name	ESRRG estrogen-related receptor gamma [Homo sapiens]
Official Symbol	ESRRG
Synonyms	ESRRG; estrogen-related receptor gamma

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Gene ID	2104
mRNA Refseq	NM_001243505
Protein Refseq	NP_001230434
MIM	602969
UniProt ID	P62508

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