



## Human ESRRG peptide (DAG-P0473)

This product is for research use only and is not intended for diagnostic use.

### PRODUCT INFORMATION

#### Antigen 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 isoforms differing in the N-terminal region. [provided by RefSeq, Aug 2011]

<b>Specificity</b>	Expressed in the heart, kidney, brain, lung, bone marrow, adrenal gland, trachea, spinal cord and thyroid gland.
<b>Purity</b>	> 90 % by SDS-PAGE. This peptide is greater than 70% pure.
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	Neut
<b>Sequence Similarities</b>	Belongs to the nuclear hormone receptor family. NR3 subfamily. Contains 1 nuclear receptor DNA-binding domain.
<b>Format</b>	Liquid
<b>Buffer</b>	Double distilled water or equivalent after reconstitution.

<b>Preservative</b>	None
<b>Storage</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles. Double distilled water or equivalent after reconstitution.

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">ESRRG estrogen-related receptor gamma [ Homo sapiens (human) ]</a>
<b>Official Symbol</b>	ESRRG
<b>Synonyms</b>	ESRRG; estrogen-related receptor gamma; ERR3; NR3B3; ERRgamma; ERR gamma-2; estrogen receptor-related protein 3; nuclear receptor subfamily 3 group B member 3;
<b>Entrez Gene ID</b>	<a href="#">2104</a>
<b>mRNA Refseq</b>	<a href="#">NM_001134285.2</a>
<b>Protein Refseq</b>	<a href="#">NP_001127757.1</a>
<b>UniProt ID</b>	F1D8R6
<b>Chromosome Location</b>	1q41
<b>Pathway</b>	Gene Expression, organism-specific biosystem; Generic Transcription Pathway, organism-specific biosystem; Nuclear Receptor transcription pathway, organism-specific biosystem;
<b>Function</b>	AF-2 domain binding; protein binding; retinoic acid receptor activity; sequence-specific DNA binding; steroid binding; steroid hormone receptor activity; zinc ion binding;