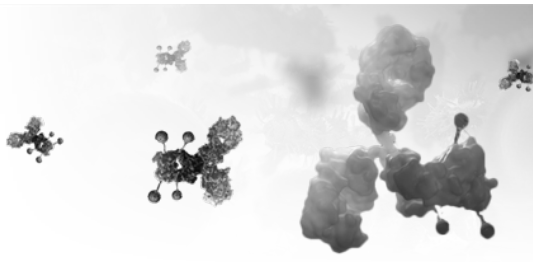

Human ESR1 peptide (DAG-P1557)

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

PRODUCT INFORMATION

Antigen Description	This gene encodes an estrogen receptor, a ligand-activated transcription factor composed of several domains important for hormone binding, DNA binding, and activation of transcription. The protein localizes to the nucleus where it may form a homodimer or a heterodimer with estrogen receptor 2. Estrogen and its receptors are essential for sexual development and reproductive function, but also play a role in other tissues such as bone. Estrogen receptors are also involved in pathological processes including breast cancer, endometrial cancer, and osteoporosis. Alternative promoter usage and alternative splicing result in dozens of transcript variants, but the full-length nature of many of these variants has not been determined. [provided by RefSeq, Mar 2014]
Conjugate	Unconjugated
Sequence Similarities	Belongs to the nuclear hormone receptor family. NR3 subfamily.Contains 1 nuclear receptor DNA-binding domain.
Format	Liquid
Preservative	None
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles. Information available upon request.

GENE INFORMATION

Gene Name	ESR1 estrogen receptor 1 [Homo sapiens (human)]
Official Symbol	ESR1
Synonyms	ESR1; estrogen receptor 1; ER; ESR; Era; ESRA; ESTRR; NR3A1; estrogen receptor; ER-alpha; estradiol receptor; estrogen nuclear receptor alpha; estrogen receptor alpha E1-E2-1-2; estrogen receptor alpha E1-N2-E2-1-2; nuclear receptor subfamily 3 group A member 1;

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Entrez Gene ID	2099
mRNA Refseq	NM_000125.3
Protein Refseq	NP_000116.2
UniProt ID	G4XH65
Chromosome Location	6q25.1
Pathway	Endocrine and other factor-regulated calcium reabsorption, organism-specific biosystem; Endocrine and other factor-regulated calcium reabsorption, conserved biosystem; Estrogen signaling pathway, organism-specific biosystem; Estrogen signaling pathway, organism-specific biosystem; Estrogen signaling pathway, conserved biosystem; FOXA1 transcription factor network, organism-specific biosystem; FOXM1 transcription factor network, organism-specific biosystem; Gene Expression, organism-specific bios
Function	beta-catenin binding; chromatin binding; core promoter sequence-specific DNA binding; enzyme binding; estrogen receptor activity; estrogen response element binding; estrogen-activated sequence-specific DNA binding RNA polymerase II transcription factor ac

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