Estrogen Receptor Alpha (Ps118) Blocking Peptide – >85% Purity

PRODUCT OVERVIEW

Product Name	Estrogen Receptor alpha (ESR1), Blocking Peptide
Full Product Name	Estrogen Receptor alpha (pS118) Blocking Peptide
Product Gene Name	ESR1 blocking peptide
Product Synonym Names	ESR; NR3A1; Estrogen receptor; ER; ER-alpha; Estradiol receptor; Nuclear receptor subfamily 3 group A member 1
Host	Synthetic
Species Reactivity	Human
Form/Format	Lyophilized powder
Purity/Purification	>85%
Preparation and Storage	Shipped at 4 degree C. Store at -20 degree C for one year.
Antibody/Peptide Pairs	Estrogen Receptor alpha peptide (MBS8204640) is used for blocking the activity of Estrogen Receptor alpha antibody (MBS8231589)
Molecular Weight	35,547 Da
OMIM	133430
Quality Control	The quality of the peptide was evaluated by reversed-phase HPLC and by mass spectrometry.
Directions for Use	Blocking Peptide to the diluted primary antibody in a molar ratio of 10:1 (peptide to antibody) and incubate the mixture at 4 degree C for overnight or at room temperature for 2 hours.
Applications Tested/Suitable for ESR1 blocking peptide	Blocking (BL)
Related Product Information for ESR1 blocking peptide	The peptide is used to block Anti-Estrogen Receptor alpha (pS118) Antibody reactivity.
Other Notes	Small volumes of ESR1 blocking peptide vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for ESR1 purchase	MBS8204640 is a blocking peptide targeting ESR1. Also known as Estrogen Receptor alpha (pS118) Blocking Peptide. Reactive in Human. Host: Synthetic.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ESR1. It may not necessarily be applicable to this product.

NCBI GI #	62821794
NCBI GeneID	2099
NCBI Accession #	NP_000116.2
UniProt Primary Accession #	P03372
UniProt Secondary Accession #	Q13511; Q14276; Q5T5H7; Q6MZQ9; Q9NU51; Q9UDZ7; Q9UIS7
UniProt Related Accession #	P03372
GenBank Nucleotide #	NM_000125.3

NCBI Official Full Name	estrogen receptor isoform 1
NCBI Official Synonym Full Names	estrogen receptor 1
NCBI Official Symbol	ESR1
NCBI Official Synonym Symbols	ER; ESR; Era; ESRA; ESTRR; NR3A1
UniProt Protein Name	Estrogen receptor
UniProt Synonym Protein Names	ER-alpha; Estradiol receptor; Nuclear receptor subfamily 3 group A member 1
Protein Family	Estrogen receptor
UniProt Gene Name	ESR1
UniProt Synonym Gene Names	ESR; NR3A1; ER
UniProt Entry Name	ESR1_HUMAN
NCBI Protein Information	estrogen receptor
NCBI Summary for ESR1	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]
UniProt Comments for ESR1	ER-alpha: a nuclear hormone receptor and transcription factor. Regulates gene expression and affects cellular proliferation and differentiation in target tissues. Two splice-variant isoforms have been described. Protein type: Nuclear receptor; DNA-binding Chromosomal Location of Human Ortholog: 6q25.1 Cellular Component: nucleoplasm; Golgi apparatus; membrane; cytoplasm; plasma membrane; integral to membrane; nucleus Molecular Function: identical protein binding; estrogen receptor activity; zinc ion binding; nitric-oxide synthase regulator activity; beta-catenin binding; estrogen response element binding; transcription factor binding; steroid binding; protein binding; enzyme binding; steroid hormone receptor activity; chromatin binding; transcription factor activity Biological Process: estrogen receptor signaling pathway; positive regulation of nitric oxide biosynthetic process; signal transduction; uterus development; response to estradiol stimulus; regulation of apoptosis; elevation of cytosolic calcium ion concentration; positive regulation of fibroblast proliferation; regulation of transcription, DNA-dependent; epithelial cell development; steroid hormone receptor signaling pathway; transcription initiation from RNA polymerase II promoter; transcription, DNA-dependent; negative regulation of transcription factor activity; antral ovarian follicle growth; positive regulation of nitric-oxide synthase activity; male gonad development; androgen metabolic process; vagina development; positive regulation of retinoic acid receptor signaling pathway; negative regulation of I-kappaB kinase/NF-kappaB cascade; chromatin remodeling; response to estrogen stimulus; gene expression; positive regulation of transcription factor activity; G-protein signaling, coupled to IP3 second messenger (phospholipase C activating); steroid hormone mediated signaling; positive regulation of transcription from RNA polymerase II promoter Disease: Migraine With Or Without Aura, Susceptibility To, 1; Breast Cancer; Myocardial Infarction, Susceptibility To; Estrogen Resistance
Research Articles on ESR1	**1.** Study show that miR-221 is upregulated in HBV-related hepatocellular carcinoma (HCC) and modulates cell proliferation by suppressing ERalpha, functioning as a tumor promoter.

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