
ER-alpha/beta Peptide

Subcategory: Blocking Peptide, Synthetic Peptide

Cat. No.: 300122

Unit: 0.1 mg

Description:

Estrogen and progesterone receptors are members of a family transcription factors regulated by the binding of their cognate ligands. The interaction of hormone bound estrogen receptors with estrogen responsive elements (EREs) alters transcription of ERE-containing genes. The carboxy terminal region of the estrogen receptor contains the ligand binding domain, the amino terminus serves as the transactivation domain and the DNA binding domain is centrally located. Two forms of estrogen receptor have been identified, ER alpha and ER beta. Both have been shown to be differentially activated by various ligands. The biological response to progesterone is mediated by two distinct forms of the human progesterone receptor (hPR-A and hPR-B) which arise from alternative splicing. In most cells, hPR-B functions as a transcriptional activator of progesterone-responsive gene, whereas hPR-A functions as a transcriptional inhibitor of all steroid hormone receptors.

Format: Each vial contains 0.1 mg of lyophilized peptide. Reconstitute with 0.1 ml deionized water for a final concentration of 1 mg/ml. Use at 5.6 ug/ml for a 100X excess over antibody for maximum blocking effect.

Alternate Names: Estrogen receptor; ER; Estradiol receptor; ER-alpha; Nuclear receptor subfamily 3 group A member 1; ESR1; ESR; NR3A1; Estrogen receptor beta; ER-beta; Nuclear receptor subfamily 3 group A member 2; ESR2; ESTRB; NR3A2

Accession No.: P03372, Q92731

MW: 1814.0 g/mol

Sequence: The synthetic peptide used to raise the antibody Cat. No. 250638 is selected from a sequence within the center region of human ER-alpha/beta. For blocking experiments, a 10 to 100 fold molar excess to antibody is recommended.

Composition: C81H120N24O22S1

Purity: Purity > 80% by HPLC

Solubility: Distilled water for a solution up to 2 mg/ml, otherwise we recommend using acetonitrile.

Storage: Store at -20°C. The product is hygroscopic and must be protected from light. Product is guaranteed one year from the date of shipment. Following reconstitution, store at -20°C.

For research use only, not for diagnostic or therapeutic procedures.