

Datasheet for ABIN5713438

**Estrogen Receptor alpha Protein (AA 9-591, partial) (His tag)**[Go to Product page](#)**1** Image

## Overview

Quantity:	100 µg
Target:	Estrogen Receptor alpha (ESR1)
Protein Characteristics:	partial, AA 9-591
Origin:	Human
Source:	Yeast
Protein Type:	Recombinant
Purification tag / Conjugate:	This Estrogen Receptor alpha protein is labelled with His tag.
Application:	SDS-PAGE (SDS)

## Product Details

Sequence:	ASGMALLHQI QGNELEPLNR PQLKIPLERP LGEVYLDSSK PAVYNYPEGA AYEFNAAAAA NAQVYGQTGL PYGPGSEAAA FGSNGLGGFP PLNSVSPSPL MLLHPPPQLS PFLQPHGQQV PYYLENESPG YTVREAGPPA FYRPNSDNRR QGGRERLAST NDKGSMAMES AKETRYCAVC NDYASGYHYG VWSCEGCKAF FKRSIQGHND YMCPATNQCT IDKNRRKSCQ ACRLRKCYEV GMMKGGIRKD RRGGRMLKHK RQRDDGEGRG EVGSAGDMRA ANLWPSPLMI KRSKKNLAL SLTADQMVSA LLDAEPPILY SEYDPTRPFS EASMMGLLTN LADRELVHMI NWAKRVPGFV DLTLHDQVHL LECAWLEILM IGLVWRSMEH PGKLLFAPNL LLDRNQGKCV EGMVEIFDML LATSSRFRMM NLQGEEFVCL KSIILLNSGV YTFLSSTLKS LEEKDHIHRV LDKITDTLIH LMAKAGLTQ QQHQLAQLL LILSHIRHMS NKGMEHLYSM KCKNVVPLYD LLEMLDAHR LHAPTSRGGGA SVEETDQSHL ATAGSTSSHS LQKYITGEA EGF
Purification:	SDS-PAGE
Purity:	> 90 %

## Target Details

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Target: Estrogen Receptor alpha (ESR1)

Alternative Name: ESR1 ([ESR1 Products](#))

Background: Nuclear hormone receptor. The steroid hormones and their receptors are involved in the regulation of eukaryotic gene expression and affect cellular proliferation and differentiation in target tissues. Ligand-dependent nuclear transactivation involves either direct homodimer binding to a palindromic estrogen response element (ERE) sequence or association with other DNA-binding transcription factors, such as AP-1/c-Jun, c-Fos, ATF-2, Sp1 and Sp3, to mediate ERE-independent signaling. Ligand binding induces a conformational change allowing subsequent or combinatorial association with multiprotein coactivator complexes through LXXLL motifs of their respective components. Mutual transrepression occurs between the estrogen receptor (ER) and NF-kappa-B in a cell-type specific manner. Decreases NF-kappa-B DNA-binding activity and inhibits NF-kappa-B-mediated transcription from the IL6 promoter and displaces RELA/p65 and associated coregulators from the promoter. Recruited to the NF-kappa-B response element of the CCL2 and IL8 promoters and can displace CREBBP. Present with NF-kappa-B components RELA/p65 and NFKB1/p50 on ERE sequences. Can also act synergistically with NF-kappa-B to activate transcription involving respective recruitment adjacent response elements, the function involves CREBBP. Can activate the transcriptional activity of TFF1. Also mediates membrane-initiated estrogen signaling involving various kinase cascades. Isoform 3 is involved in activation of NOS3 and endothelial nitric oxide production. Isoforms lacking one or several functional domains are thought to modulate transcriptional activity by competitive ligand or DNA binding and/or heterodimerization with the full length receptor. Essential for MTA1-mediated transcriptional regulation of BRCA1 and BCAS3. Isoform 3 can bind to ERE and inhibit isoform 1

Molecular Weight: 66.9 kDa

UniProt: [P03372](#)

Pathways: [Nuclear Receptor Transcription Pathway](#), [EGFR Signaling Pathway](#), [Retinoic Acid Receptor Signaling Pathway](#), [Intracellular Steroid Hormone Receptor Signaling Pathway](#), [Steroid Hormone Mediated Signaling Pathway](#), [Ribonucleoprotein Complex Subunit Organization](#), [Ribosome Assembly](#)

## Application Details

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Application Notes: Optimal working dilution should be determined by the investigator.

Restrictions: For Research Use only

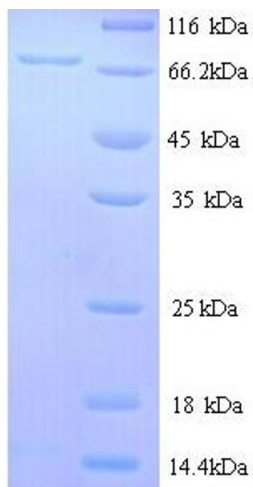
## Handling

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Format:	Liquid
Concentration:	0.1-2 mg/mL
Buffer:	20 mM Tris-HCl based buffer, pH 8.0
Storage:	-80 °C, 4 °C, -20 °C
Storage Comment:	Store at -20°C, for extended storage, conserve at -20°C or -80°C. Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

## Images

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### SDS-PAGE

#### Image 1.