

Datasheet for ABIN1096585

**Estrogen Receptor alpha Protein (AA 1-116) (His tag)**[Go to Product page](#)

## Overview

Quantity:	50 µg
Target:	Estrogen Receptor alpha (ESR1)
Protein Characteristics:	AA 1-116
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This Estrogen Receptor alpha protein is labelled with His tag.

## Product Details

Purpose:	Recombinant Human Estrogen Receptor $\alpha$ /ER $\alpha$ /NR3A1 (N-6His)
Sequence:	MGSSHHHHHH SSSLVPRGSH MTMTLHTKAS GMALLHQIQG NELEPLNRPQ LKIPLERPLG EVYLDSSKPA VYNYPEGAAY EFNAAAAANA QVYGQTGLPY GPGSEAAAFG SNGLGGFPPL NSVSPSPLML LHPPPQ
Characteristics:	Recombinant Human Estrogen Receptor $\alpha$ /ER $\alpha$ /NR3A1 (N-6His)
Purity:	> 95 % as determined by reducing SDS-PAGE.
Sterility:	0.2 µm filtered
Endotoxin Level:	Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test

## Target Details

Target:	Estrogen Receptor alpha (ESR1)
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## Target Details

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Alternative Name:	Estrogen Receptor ( <a href="#">ESR1 Products</a> )
Background:	<p>Recombinant Human Estrogen Receptor is produced by our E. coli expression system. The target protein is expressed with sequence (Met1-Gln116) of Human ESR1 fused with a His tag at the N-terminus.</p> <p>Estrogen Receptor is a major ligand-activated transcription factor belonging to the nuclear hormone receptor superfamily. Estrogen Receptor is 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 they 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 splicing results in several transcript variants, which differ in their 5' UTRs and use different promoters.</p>
Molecular Weight:	14.38 kDa
UniProt:	<a href="#">P03372</a>
Pathways:	<a href="#">Nuclear Receptor Transcription Pathway</a> , <a href="#">EGFR Signaling Pathway</a> , <a href="#">Retinoic Acid Receptor Signaling Pathway</a> , <a href="#">Intracellular Steroid Hormone Receptor Signaling Pathway</a> , <a href="#">Steroid Hormone Mediated Signaling Pathway</a> , <a href="#">Ribonucleoprotein Complex Subunit Organization</a> , <a href="#">Ribosome Assembly</a>

## Application Details

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Restrictions: For Research Use only

## Handling

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Format:	Lyophilized
Reconstitution:	<p>It is not recommended to reconstitute to a concentration less than 100 µg/mL.</p> <p>Dissolve the lyophilized protein in ddH<sub>2</sub>O.</p> <p>Please aliquot the reconstituted solution to minimize freeze-thaw cycles.</p>
Buffer:	Lyophilized from a 0.2 µm filtered solution of 20 mM PB, 150 mM NaCl, pH 7.2.
Handling Advice:	Always centrifuge tubes before opening. Do not mix by vortex or pipetting.
Storage:	4 °C/-20 °C/-80 °C
Storage Comment:	<p>Lyophilized protein should be stored at &lt; -20°C, though stable at room temperature for 3 weeks.</p> <p>Reconstituted protein solution can be stored at 4-7°C for 2-7 days.</p>

Aliquots of reconstituted samples are stable at  $< -20^{\circ}\text{C}$  for 3 months.