Datasheet for ABIN7318451

Estrogen Receptor alpha Protein (His tag)

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Overview

Quantity:	50 µg
Target:	Estrogen Receptor alpha (ESR1)
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 α/ER alpha Protein (His Tag)
Sequence:	Met 1-Gln116
Characteristics:	Recombinant Human Estrogen receptor alpha is produced by our E.coli expression system and the target gene encoding Met1-Gln116 is expressed with a 6His tag at the N-terminus.
Purity:	> 90 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.

Target Details

Target:	Estrogen Receptor alpha (ESR1)
Alternative Name:	Estrogen Receptor alpha/ER alpha (ESR1 Products)
Background:	Background: 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

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Target Details

	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. Synonym: Estrogen Receptor, ER, ER-Alpha, Estradiol Receptor, Nuclear Receptor Subfamily 3 Group A Member 1, ESR1, ESR, NR3A1
Molecular Weight:	14.4 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

Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Please refer to the printed manual for detailed information.
Buffer:	Lyophilized from a 0.2 µm filtered solution of 20 mM PB, 150 mM NaCl, pH 7.2.
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.