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Datasheet for ABIN7505144

Estrogen Receptor alpha Protein (AA 297-554) (His tag)



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Quantity:	100 μg
Target:	Estrogen Receptor alpha (ESR1)
Protein Characteristics:	AA 297-554
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

Sequence:	Met 297-Ser 554
Characteristics:	A DNA sequence encoding the Human ER alpha protein (P03372) (Met 297-Ser 554) was expressed with a N-His tag.
Purity:	> 95 % as determined by reducing SDS-PAGE.

Target Details

Target:	Estrogen Receptor alpha (ESR1)
Alternative Name:	ER alpha (ESR1 Products)
Background:	Abbreviation: ER alpha
	Target Synonym: Estrogen Receptor α,Estrogen Receptor,ER,ER-Alpha,Estradiol
	Receptor, Nuclear Receptor Subfamily 3 Group A Member 1, ESR1, ESR, NR3A1
	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 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.

Molecular Weight:

Calculated MW: 28.27 kDa

Observed MW: 31 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
Buffer:	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01 % Tween80 are added as protectants before lyophilization.
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.
Expiry Date:	12 months