Recombinant Human Androgen Receptor, His-tagged

Cat. No. AR-2622H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human Androgen Receptor with a His tag is expressed in*E. coli.*
Species	Human
Source	E.coli
ProteinLength	1-557 aa
Description	Signaling by the androgen receptor plays a key role in proper development and function of male reproductive organs. The androgen receptor gene is more than 90 kb long and codes for a protein that has 3 major functional domains: the N-terminal domain, DNA-binding domain, and androgen-binding domain. The protein functions as a steroid-hormone activated transcription factor. Upon binding the hormone ligand, the receptor dissociates from accessory proteins, translocates into the nucleus, dimerizes, and then stimulates transcription of androgen responsive genes. This gene contains 2 polymorphic trinucleotide repeat segments that encode polyglutamine and polyglycine tracts in the N-terminal transactivation domain of its protein. Expansion of the polyglutamine tract causes spinal bulbar muscular atrophy (Kennedy disease). Mutations in this gene are also associated with complete androgen insensitivity (CAIS). Two alternatively spliced variants encoding distinct isoforms have been described. The androgen receptor (AR) has been shown to play a critical role in the development and progression of the prostate cancer.
Concentration	0.33 mg/ml.

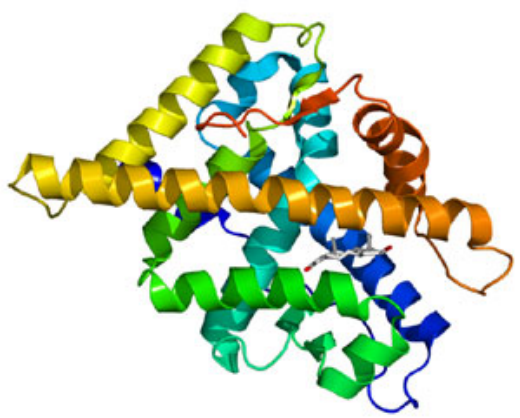
Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Molecular Weight	62 kDa.
Formulation	Sterile filtered liquid containing 6M Urea + 20 mM Sodium Phosphate + 0.5 M NaCl +0.5 M Imidazole, pH 7.4.
Purity	>95.0% as determined by reducing and non-reducing SDS-PAGE Silver Stained gel.
Storage	Stable for 6 months in working aliquots at -20°C. Avoid repeated freeze-thaw cycles.

GENE INFORMATION

Gene Name	AR androgen receptor [Homo sapiens]
Synonyms	AR; androgen receptor; KD; AIS; TFM; DHTR; SBMA; HYSP1; NR3C4; SMAX1; HUMARA; dihydrotestosterone receptor; spinal and bulbar muscular atrophy; testicular feminization; Kennedy disease; Nuclear receptor subfamily 3 group C member 4; OTTHUMP00000023450; OTTHUMP00000061928
Gene ID	367
mRNA Refseq	NM_000044
Protein Refseq	NP_000035
MIM	313700
UniProt ID	P10275
Chromosome Location	Xq12

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Pathway	Pathways in cancer; Prostate cancer
Function	androgen binding; androgen receptor activity; metal ion binding; protein dimerization activity; receptor activity; receptor binding; sequence-specific DNA binding; transcription activator activity; transcription factor activity; zinc ion binding
Structure of the ligand binding domain of the androgen receptor.	

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