

# Recombinant Human Androgen Receptor protein

Cat. No. AR-001H Lot. No. (See product label)

## SPECIFICATION

**Product Overview** Recombinant Human Androgen Receptor protein was expressed in Insect cell.

**Species** Human

**Source** Insect Cells

**ProteinLength** 1-920 aa

### Description

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 from the normal 9-34 repeats to the pathogenic 38-62 repeats causes spinal bulbar muscular atrophy (SBMA, also known as Kennedy's disease). Mutations in this gene are also associated with complete androgen insensitivity (CAIS). Alternative splicing results in multiple transcript variants encoding different isoforms.

**Form** PBS buffer, pH 7.4.

**Molecular Mass** ~ 101 kDa

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**AA Sequence**

HHHHHHMEVQLGLGRVYPRPPSKTYRGAFQNLFQSVREVIQNPGRHPEAASAAP  
 PGASLLLLQQQQQQQQQQQQQQQQQQQQQQQETSPPRQQQQQQGEGDGPQAH  
 RRGPTGYLVLDEEQQPSQPQSALECHPERGCVPEPGAAVAASKGLPQQLPAPPDE  
 DDSAAPSTLSLLGPTFPGLSSCSADLKDILSEASTMQLLQQQQQEAVSEGSSSGRA  
 REASGAPTSSKDNYLGGTSTISDNAKELCKAVSVSMGLGVEALEHLSPGEQLRGDC  
 MYAPLLGVPPAVRPTPCAPLAECKGSLDDDSAGKSTEDTAEYSPFKGGYTKGLEGE  
 SLGCSGSAAAGSSGTLELPSTLSLYKSGALDEAAAYQSRDYINFPLALAGPPPPPP  
 PPHPHARIKLENPLDYGSAAAAAQCRYGDLASLHGAGAAGPGSGSPSAAASSS  
 WHTLFTAEEGQLYGPCGGGGGGGGGGGGGGGGGGGGGGGGGGEAGAVAPYGYTRP  
 PQGLAGQESDFTAPDVWYPGGMVSVPYPSPTCVKSEMGPWMDSYSGPYGDMR  
 LETARDHVLPIDYYFPPQKTCLICGDEASGCHYGALTCGSCKVFFKRAAEGKQKYL  
 ASRNDCTIDKFRKNCPSRLRKCYEAGMTLGARKLKKLGNLKLQEEGEASSTTSP  
 TEETTQKLTVSHIEGYECQIFLNVLEAIEPGVVCAGHDNNQPDSFAALLSSLNELGE  
 RQLVHVVKWAKALPGFRNLHVDDQMAVIQYSWMGLMVFAMGWSFTNVNSRMLY  
 FAPDLVFNEYRMHKSRMYSQCVRMRHLSQEFQWLQITPQEFLCMKALLLFSIIPVDG  
 LKNQKFFDELRMNYIKELDRIIACKRKNPTSCSRRFYQLTKLLDSVQPIARELHQFTF  
 DLLIKSHMVSVDPFEMMAEIIISVQVPKILSGKVKPIYFHTQ YPYDVPDYA

**Purity** >85 %

**Storage** Long Term Storage at -20 centigrade to -80 centigrade. Avoid freeze/thaw cycles.

**Concentration** 0.15 ug/ul

## GENE INFORMATION

**Gene Name** AR androgen receptor [ Homo sapiens (human) ]

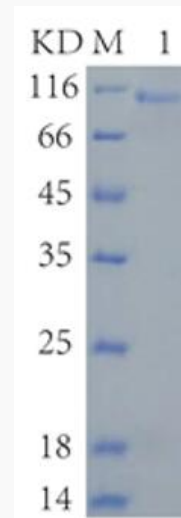
**Official Symbol** AR

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<b>Synonyms</b>	KD; AIS; AR8; TFM; DHTR; SBMA; HYSP1; NR3C4; SMAX1; HUMARA
<b>Gene ID</b>	367
<b>mRNA Refseq</b>	NM_000044
<b>Protein Refseq</b>	NP_000035
<b>MIM</b>	313700
<b>UniProt ID</b>	P21730

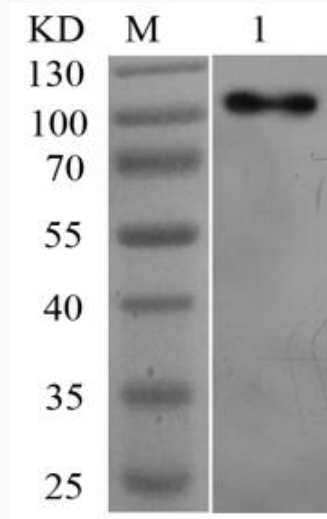


SDS-PAGE analysis of purified recombinant AR(reduced).  
Lane M: Protein Marker, Lane 1: Purified AR.

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WB analysis of purified recombinant AR.

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