

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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 45-1 Ramsey Road, Shirley, NY 11967, USA

AA Sequence

HHHHHHMEVQLGLGRVYPRPPSKTYRGAFQNLFSVREVIQNPGRHPEAASAAP
 PGASLLLLQQQQQQQQQQQQQQQQQQQQQQQQQQQQQETSPRQQQQQQGGEDGSPQAH
 RRGPTGYLVLDDEEQPSQPQSALECHPERGCVPEPGAAVAASKGLPQQLPAPPDE
 DDSAAPSTLSLLGPTFPGLSSCSADLKDILSEASTMQLLQQQQQEAVSEGSSSGRA
 REASGAPTSSKDNYLGGTSTISDNAKELCKAVSVSMGLGVEALEHLSPGEQLRGDC
 MYAPLLGVPPAVRPTPCAPLAECKGSLLDDSAGKSTEDTAEYSPFKGGYTKGLEGE
 SLGCSGSAAAGSSGTLELPSTLSLYKSGALDEAAAYQSRDYNNFPLALAGPPPPPP
 PPHPHARIKLENPLDYGSAAAAAAQCRYGDLASLHGAGAAGPGSGSPSAAASSS
 WHTLFTAEEGQLYGPCGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGEAGAVAPYGYTRP
 PQGLAGQESDFTAPDVWYPGGMVSRVPYPSPTCVKSEMGPWMDSYSGPYGDMR
 LETARDHVLPIDYYFPPQKTCLICGDEASGCHYGALTCGSCKVFFKRAAEGKQKYLK
 ASRNDCTIDKFRRKNPCSCRLRKCYEAGMTLGARKLKKLGNLKLQEEGEASSTTSP
 TEETTQKLTVSHIEGYECQIFLNVLEAIEPGVVCAGHDNNQPDSFAALLSSLNELGE
 RQLVHVVKWAKALPGFRNLHVDDQMAVIQYSWMGLMVFAMGWSFTNVNSRMLY
 FAPDLVFNEYRMHKSRMYSQCVRMRHLSQEFQWLQITPQEFLCMKALLLFSIIPVDG
 LKNQKFFDELRMNYIKELDRIIACKRKNPSTCSRRFYQLTKLLDSVQPIARELHQFTF
 DLLIKSHMVSVDVFPEMMAEIISVQVPKILSGKVKPIYFHTQ 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

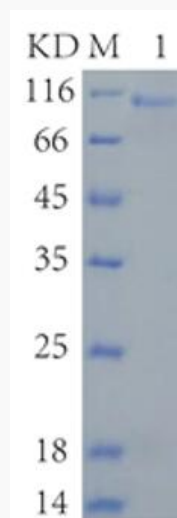
AR

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



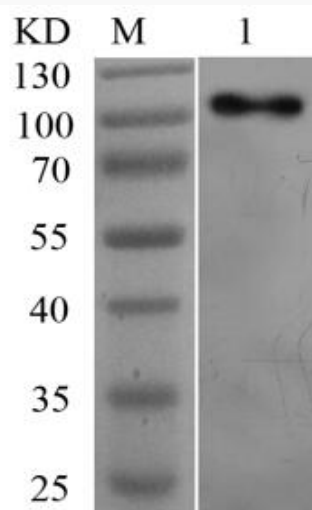
SDS-PAGE analysis of purified recombinant AR(reduced).

Lane M: Protein Marker, Lane 1: Purified AR.

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WB analysis of purified recombinant AR.