

## Recombinant Human AR Protein, His-tagged

Cat. No. AR-333H Lot. No. (See product label)

### SPECIFICATION

|                         |  |
|-------------------------|--|
| <b>Product Overview</b> | Recombinant human AR protein with a His-tag was expressed in Insect cells  |
| <b>Species</b>          | Human  |
| <b>Source</b>           | Insect Cells   |
| <b>ProteinLength</b>    | 1-920 a.a.   |
| <b>Description</b>      | <p>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.</p> |
| <b>Molecular Mass</b>   | The protein has a calculated MW of 100.5 kDa.  |
| <b>AA Sequence</b>      | MEVQLGLGRVYPRPPSKTYRGAFQNLFQSVREVIQNPGPRHPEAASAAPP GASLLL<br>LQQQQQQQQQQQQQQQQQQQQQQQQQETS PRQQQQQQG EDGSPQAHRRGPTGY   |

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LVLDEEQQPSQPQSALECHPERGCVPEPGAAVAASKGLPQQLPAPPDEDDSAAPS  
 TLLSLLGPTFPGLSSCSADLKDILSEASTMQLLQQQQQEAVSEGSSSSGRAREASGAP  
 TSSKDNYLGGTSTISDNAKELCKAVSVSMGLGVEALEHLSPGEQLRGDCMYAPLLG  
 VPPAVRPTPCAPLAECKGSLDDDSAGKSTEDTAEYSPFKGGYTKGLEGESLGCSSG  
 AAAGSSGTLELPSTLSLYKSGALDEAAAYQSRDYINFPLALAGPPPPPPPPHARI  
 KLENPLDYGSAAAAAQCRYGDLASLHGAGAAGPGSGSPSAAASSSWHTLFTAE  
 EGQLYGPCGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGEAGAVAPYGYTRPPQGLAGQ  
 ESDFTAPDVWYPGGMVSRVPYPSPTCVKSEMGPWMDSYSGPYGDMRLETARDHV  
 LPIDYYFPPQKTCLICGDEASGCHYGALTCGSKVFFKRAAEGKQKYL CASRNDCTI  
 DKFRRKNCPSCLRKCYEAGMTLGARKLKKLGNLKLQEEGEASSTTSPTEETTQKL  
 TVSHIEGYECQIFLNVLEAIEPGVVCAGHDNNQPDSFAALLSSLNELGERQLVHVVK  
 WAKALPGFRNLHVDDQMAVIQYSWMGLMVFAMGWSFTNVNSRMLYFAPDLVFN  
 EYRMHKSRMYSQCVRMRHLSQEFGLQITPQEFLCMKALLFSIIPVDGLKNQKFF  
 DELRMNYIKELDRIIACKRKNPTSCSRRFYQLTKLLDSVQPIARELHQFTFDLLIKSHM  
 VSVDFPEMMAEIIISVQVPKILSGKVKPIYFHTQLRHHHHHHHHH

|                       |   |
|-----------------------|---|
| <b>Purity</b>         | >80% by SDS-PAGE  |
| <b>Storage</b>        | Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. |
| <b>Concentration</b>  | 0.1 mg/mL   |
| <b>Storage Buffer</b> | 20mM Tris, 100mM NaCl, 20% glycerol, 0.5mM EDTA, 1mM DTT, pH8.0   |

## GENE INFORMATION

|                        |   |
|------------------------|---|
| <b>Gene Name</b>       | AR androgen receptor [ Homo sapiens (human) ] |
| <b>Official Symbol</b> | AR  |

**Synonyms** AR; androgen receptor; DHTR, dihydrotestosterone receptor , SBMA, spinal and bulbar muscular atrophy; AIS; HUMARA; Kennedy disease; NR3C4; SMAX1; testicular feminization; dihydrotestosterone receptor; androgen nuclear receptor variant 2; nuclear receptor subfamily 3 group C member 4; KD; TFM; DHTR; SBMA; HYSP1;

**Gene ID** [367](#)

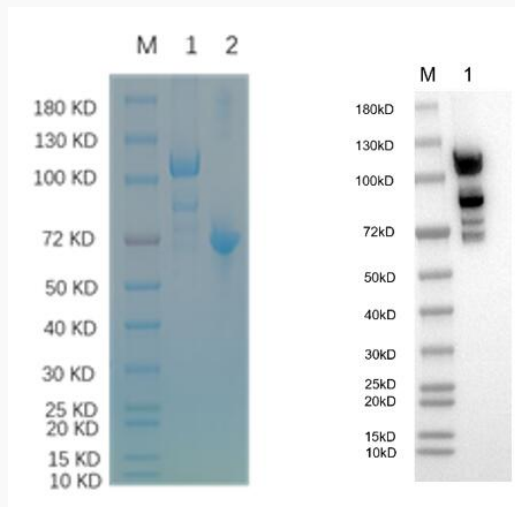
**mRNA Refseq** [NM\\_000044](#)

**Protein Refseq** [NP\\_000035](#)

**MIM** [313700](#)


**UniProt ID** [P10275](#)

**SDS-PAGE:**



Reducing 12% SDS-PAGE and WB analysis profile of purified AR

1. AR

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2. BSA

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