

# Recombinant Human AR Protein, Sumo/His/Strep-tagged

**Cat. No.** AR-003H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
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| <b>Product Overview</b> | Recombinant Human AR Protein (1-669) with Sumo/His/Strep tag was expressed in E. coli.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>ProteinLength</b>    | 1-669 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>   | 84.13 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>AA Sequence</b>      | MNWSHPQFEKSSSGSSGGHHHHHHGGSGGSGSDSEVNQEAKPEVKPEVKPETHIN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

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LKVSDGSSEIFFKIKKTTPLRRLMEAFKRQ GKEMDSLRF LYDGIRIQADQAPEDLDM  
 EDNDIIEAHREQIGGMEVQLGLGRVYPRPPSKTYRGA FQNLFQSVREVIQNPGRH  
 PEAASAAPPGASLLLLQQQQQQQQQQQQQQQQQQQQQQQETSPRQQQQQQGE  
 DGSPQAHRRGPTGYLVLDEEQPSQPQSALECHPERGCVPEPGA AAVAASKGLPQ  
 QLPAPPDEDDSAAPSTLSLLGPTFPGLSSCSADLKDILSEASTMQLLQQQQQEAVSE  
 GSSSGRAREASGAPTSSKDNYLGGTSTISDNAKELCKAVSVSMGLGVEALEHLSPG  
 EQLRGDCMYAPLLGVPPAVRPTPCAPLAECKGSLDD SAGKSTEDTAEYSPFKGGY  
 TKGLEGESLGC SGSAAGSSGTLELPSTLSLYKSGALDEAAAYQSRDYNNFPLALA  
 GPPPPPPPPH PHARIKLENPLDYGSAWAAAAA QCRYGDLASLHGAGAAGPGSGSP  
 SAAASSSWHTLFTAEEGQLYGPCGGGGGGGGGGGGGGGGGGGGGGGGGGEAGAVA  
 PYGYTRPPQGLAGQESDFTAPDVWYPGGMVSRVPYPSPTCVKSEMGPWMDSYS  
 GPYGDMRLETARDHVLPIDYYFPPQKTCLICGDEASGCHYGALT CGSCKVFFKRAA  
 EGKQKYL CASRNDCTIDKFRRKNCPSCRLRKCYEAGMTLGARKLKKLGNLKLQEEG  
 EASSTTSPTEETTQKLT VSHIEGYE

**Purity** > 85% by SDS-PAGE

**Storage** 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.

**Concentration** 0.5 mg/mL

**Storage Buffer** Supplied as a 0.2 µm filtered solution in PBS, pH 7.4.

## GENE INFORMATION

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

**Official Symbol** AR

**Synonyms** AR; androgen receptor; KD; AIS; AR8; TFM; DHTR; SBMA; HYSP1; NR3C4; SMAX1;

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HUMARA; androgen receptor; dihydrotestosterone receptor; nuclear receptor  
subfamily 3 group C member 4

**Gene ID** 367

**mRNA Refseq** NM\_000044

**Protein Refseq** NP\_000035

**MIM** 313700

**UniProt ID** P10275

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