

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

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

SPECIFICATION

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

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LKVSDGSSEIFFKIKKTTPLRRLMEAFKRQ GKEMDSLRF LYDGIRIQADQAPEDLDM
 EDNDIIEAHREQIGGMEVQLGLGRVYPRPPSKTYRGA FQNLFQSVREVIQNPGRH
 PEAASAAPPGASLLLLQQQQQQQQQQQQQQQQQQQQQQQETSPRQQQQQQGE
 DGSPQAHRRGPTGYLVLDEEQPSQPQSALECHPERGCVPEPGA AAVAASKGLPQ
 QLPAPPDEDDSAAPSTLSLLGPTFPGLSSCSADLKDILSEASTMQLLQQQQQEAVSE
 GSSSGRAREASGAPTSSKDNYLGGTSTISDNAKELCKAVSVSMGLGVEALEHLSPG
 EQLRGDCMYAPLLGVPPAVRPTPCAPLAECKGSLDD SAGKSTEDTAEYSPFKGGY
 TKGLEGESLGCSGSAAAGSSGTLELPSTLSLYKSGALDEAAAYQSRDYNNFPLALA
 GPPPPPPPPHAPHARIKLENPLDYGSAWAAAAA QCRYGDLASLHGAGAAGPGSGSP
 SAAASSSWHTLFTAEEGQLYGPCGGGGGGGGGGGGGGGGGGGGGGGGGGGGEAGAVA
 PYGYTRPPQGLAGQESDFTAPDVWYPGGMVSRVPYPSPTCVKSEMGPWMDSYS
 GPYGDMRLETARDHVLPIDYFFPPQKTCLICGDEASGCHYGALT 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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