

## Recombinant Human AR protein, GST-tagged

Cat. No. AR-737H Lot. No. (See product label)

### SPECIFICATION

**Product Overview** Human AR partial ORF ( NP\_000035, 221 a.a. - 320 a.a.) recombinant protein with GST-tag at N-terminal.

**Species** Human

**Source** Wheat Germ

**ProteinLength** 221-320 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. [provided by RefSeq, Jan 2017]

**Molecular Mass** 36.74 kDa

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<b>AA Sequence</b>	SKDNYLGGTSTISDNAKELCKAVSVSMGLGVEALEHLSPGEQLRGDCMYAPLLGVP PAVRPTPCAPLAECKGSLDDDSAGKSTEDTAEYSPFKGGYTKGL
<b>Applications</b>	Enzyme-linked Immunoabsorbent Assay; Western Blot (Recombinant protein); Antibody Production; Protein Array
<b>Notes</b>	Best use within three months from the date of receipt of this protein.
<b>Storage</b>	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
<b>Storage Buffer</b>	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	<a href="#">AR androgen receptor [ Homo sapiens ]</a>
<b>Official Symbol</b>	<a href="#">AR</a>
<b>Synonyms</b>	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;
<b>Gene ID</b>	<a href="#">367</a>
<b>mRNA Refseq</b>	<a href="#">NM_000044</a>
<b>Protein Refseq</b>	<a href="#">NP_000035</a>
<b>MIM</b>	<a href="#">313700</a>

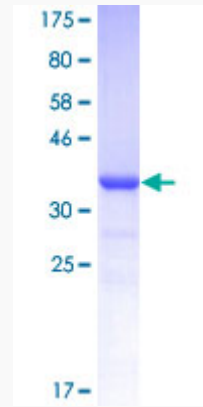
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UniProt ID

P10275



12.5% SDS-PAGE Stained with Coomassie Blue.

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