

# Recombinant Human AR

**Cat. No.** AR-27313TH    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant fragment, corresponding to amino acids 650-920 of Human Androgen Receptor including the Ligand Binding domain with a FLAG-tag on the N-terminus and a 8X His-tag on the C-terminus, expressed in a baculovirus system, 32kDa.
<b>Species</b>	Human
<b>ProteinLength</b>	650-920 a.a.
<b>Description</b>	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 causes spinal bulbar muscular atrophy (Kennedy disease). Mutations in this gene are also associated with complete androgen insensitivity (CAIS). Two alternatively spliced variants encoding distinct isoforms have been described.
<b>Conjugation</b>	FLAG,His
<b>Tissue specificity</b>	Isoform 2 is mainly expressed in heart and skeletal muscle.
<b>Form</b>	Liquid

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<b>Purity</b>	>95% by SDS-PAGE
<b>Storage buffer</b>	Preservative: None Constituents: 20% Glycerol, 20mM Tris Cl, 100mM Potassium chloride, 1mM DTT, 0.2mM EDTA, pH 8.0
<b>Storage</b>	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
<b>Sequence Similarities</b>	Belongs to the nuclear hormone receptor family. NR3 subfamily. Contains 1 nuclear receptor DNA-binding domain.

## GENE INFORMATION

<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;
<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>
<b>Uniprot ID</b>	<a href="#">P10275</a>

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**Chromosome  
Location**

Xq12

**Pathway**

Alpha6-Beta4 Integrin Signaling Pathway, organism-specific biosystem; Androgen Receptor Signaling Pathway, organism-specific biosystem; Coregulation of Androgen receptor activity, organism-specific biosystem; FOXA1 transcription factor network, organism-specific biosystem; Gene Expression, organism-specific biosystem;

**Function**

DNA binding; DNA binding; androgen binding; androgen receptor activity; androgen receptor activity;

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