

Recombinant Human AR, His-tagged

Cat. No. AR-17H Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant Human AR(Glu2-Gln556), fused with His x6 at N-terminus, was expressed in E. coli.

Species Human

Source E.coli

ProteinLength 2-556 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 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.

Form Liquid, clear solution. Supplied as a 0.2 ml filtered solution of 0.1 M NaHCO₃, 0.5 M NaCl, pH 7.5.

Molecular Mass 62 kDa

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Endotoxin	Not Determined
Purity	>95%
Applications	ELISA, Western blotting, Dot Blotting, Immunogen, Protein Array, Function Assay, etc. Before use, heat the WBC control at 95 °C for 5 minutes. Spin down the sample and load 5 μ per lane onto SDS-PAGE gel.

GENE INFORMATION

Gene Name	AR androgen receptor [Homo sapiens (human)]
Official Symbol	AR
Synonyms	AR; KD; AIS; TFM; DHTR; SBMA; HYSP1; NR3C4; SMAX1; HUMARA; androgen receptor; dihydrotestosterone receptor; androgen nuclear receptor variant 2; nuclear receptor subfamily 3 group C member 4
Gene ID	367
mRNA Refseq	NM_000044
Protein Refseq	NP_000035
MIM	313700
UniProt ID	P10275
Chromosome Location	Xq12
Pathway	Alpha6-Beta4 Integrin Signaling Pathway; Androgen receptor signaling pathway;

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FOXA1 transcription factor network

Function

DNA binding; RNA polymerase II core promoter proximal region sequence-specific
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DNA binding transcription factor activity involved in positive regulation of transcription

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