

Recombinant Full Length Human AR Protein, N-GST/C-His-tagged

Cat. No. AR-827HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Recombinant Full Length Human AR Protein fused with N-terminal GST and C-terminal His was expressed in E. coli.

Species

Human

Source

E.coli

ProteinLength

1-388 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.

Form

25mM Tris, pH8.0, 150mM NaCl, 10% glycerol, 1% Sarkosyl.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Molecular Mass	72.5 kDa
AA Sequence	A DNA sequence encoding human full-length AR.
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Protein Families	Druggable Genome, Nuclear Hormone Receptor, Transcription Factors
Protein Pathways	Oocyte meiosis, Pathways in cancer, Prostate cancer
Full Length	Full L.

GENE INFORMATION

Gene Name	AR androgen receptor [Homo sapiens (human)]
Official Symbol	AR
Synonyms	KD; AIS; AR8; TFM; DHTR; SBMA; HYSP1; NR3C4; SMAX1; HUMARA
Gene ID	367
mRNA Refseq	NM_001011645.3

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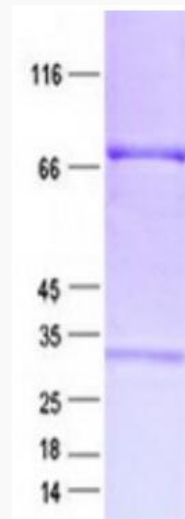
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Protein Refseq NP_001011645.1

MIM 313700

UniProt ID P10275

SDS-PAGE



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