

Androgen receptor Protein, Human, Recombinant (His & Myc & SUMO)

General Information

Synonyms:	Dihydrotestosterone receptor;DHTR;Androgen receptor;NR3C4;AR;Nuclear receptor subfamily 3 group C member 4
Protein Construction:	551-919 aa
Species:	Human
Expression Host:	E. coli
Accession:	P10275
Molecular Weight:	62.4 kDa (predicted)
AA Sequence:	DYYFPPQKTCCLICGDEASGCHYGALTCGSKVFFKRAAEGKQKYLCSARNDDCTIDKFRRKNCPCSLRKRKCYEA GMTLGARKLKKLGNLKLQEEGEASSTTSPTTEETQKLTVSHIEGYECQIFLNVLEAIEPGVVCAGHDNNQPDS FAALLSSLNELGERQLVHVVKWAKALPGFRNLHVDDQMAVIQYSWMGLMVFAMGWSFTNVNSRMLYFA PDLVFNEYRMHKSRMYSQCVRMRHLSQEFGLWQITPQEFCLMKALLFSIIPVDGLKNQKFFDELRMNYIKEL DRIIACKRKNPTSCSRRFYQLTKLLDSVQPIARELHQFTFDLLIKSHMVSVDVFPEMMAEIIISVQVPKILSGKVKPI YFHT

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 90% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Tris-based buffer, 50% glycerol

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Steroid hormone receptors are ligand-activated transcription factors that regulate eukaryotic gene expression and affect cellular proliferation and differentiation in target tissues. Transcription factor activity is modulated by bound coactivator and corepressor proteins like ZBTB7A that recruits NCOR1 and NCOR2 to the androgen response elements/ARE on target genes, negatively regulating androgen receptor signaling and androgen-induced cell proliferation. Transcription activation is also down-regulated by NROB2. Activated, but not phosphorylated, by HIPK3 and ZIPK/DAPK3.; Lacks the C-terminal ligand-binding domain and may therefore constitutively activate the transcription of a specific set of genes independently of steroid hormones.; Lacks the C-terminal ligand-binding domain and may therefore constitutively activate the transcription of a specific set of genes independently of steroid hormones.

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