

Androgen receptor Protein, Human (His-SUMO)

Cat. No.:	HY-P72088
Synonyms:	AIS; ANDR_HUMAN; Androgen nuclear receptor variant 2; Androgen receptor dihydrotestosterone receptor; testicular feminization; SBMA; SMAX1; Testicular Feminization TFM; TFM
Species:	Human
Source:	E. coli
Accession:	P10275 (D551-T919)
Gene ID:	367
Molecular Weight:	Approximately 62.4 kDa

PROPERTIES

AA Sequence	<pre> D Y Y F P P Q K T C L I C G D E A S G C H Y G A L T C G S C K V F F K R A A E G K Q K Y L C A S R N D C T I D K F R R K N C P S C R L R K C Y E A G M T L G A R K L K K L G N L K L Q E E G E A S S T T S P T E E T T Q K L T V S H I E G Y E C Q P I F L N V L E A I E P G V V C A G H D N N Q P D S F A A L L S S L N E L G E R Q L V H V V K W A K A L P G F R N L H V D D Q M A V I Q Y S W M G L M V F A M G W R S F T N V N S R M L Y F A P D L V F N E Y R M H K S R M Y S Q C V R M R H L S Q E F G W L Q I T P Q E F L C M K A L L L F S I I P V D G L K N Q K F F D E L R M N Y I K E L D R I I A C K R K N P T S C S R R F Y Q L T K L L D S V Q P I A R E L H Q F T F D L L I K S H M V S V D F P E M M A E I I S V Q V P K I L S G K V K P I Y F H T </pre>
Appearance	Lyophilized powder
Formulation	Lyophilized a 0.22 µm filtered solution of PBS, 6% Trehalose, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	The androgen receptor, a steroid hormone receptor, functions as a ligand-activated transcription factor, regulating gene expression in eukaryotic cells and influencing cellular proliferation and differentiation. Its transcriptional activity is finely tuned by coactivator and corepressor proteins, such as ZBTB7A, which recruits NCOR1 and NCOR2 to androgen response
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elements (ARE) on target genes, thereby exerting a negative regulation on androgen receptor signaling and androgen-induced cell proliferation. Additionally, transcription activation is suppressed by NR0B2. HIPK3 and ZIPK/DAPK3 can activate the androgen receptor when activated but not phosphorylated. Interestingly, lacking the C-terminal ligand-binding domain, the androgen receptor may exhibit constitutive transcriptional activation of a specific gene set independently of steroid hormones, adding complexity to its regulatory functions.

Caution: Product has not been fully validated for medical applications. For research use only.

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