Recombinant DCAF6 protein (His tag)

Catalog Number	540445
Synonyms	Androgen receptor complex-associated protein; ARCAP; IQ motif and WD repeat-containing protein 1; Nuclear receptor interaction protein; NRIP
Species	Human
Expression System	E. coli
Accession	Q58WW2
Molecular Weight	Predictes a molecular mass of 41.61 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 43 kDa band.

Product Information

Sequence Region	1-351
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>86%, by SDS-PAGE with Coomassie Brilliant Blue staining.
Endotoxin	Not tested.
Activity	Not tested.
Stability	Samples are stable for up to twelve months from date of receipt at -70℃
Protein Construction	DNA encoding 1-351 aa (Q58WW2) were fused with 6His tag.

Storage & Handling

Reconstitution	Reconstitute at 0.25 μg/μl in sterile water for short-term storage. Reconstitution with 50% glycerol solution is recommended for longer term storage (see Stability and Storage for more details). If a different concentration is needed for your purposes please adjust the reconstitution volume as required (please note: the ion concentration of the final solution will vary according to the volume used). Note: Centrifuge vial before opening. When reconstituting, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution.
Storage	Store it under sterile conditions at -20℃ to -80℃. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Shipping	In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.

Description

Description	Introducing the recombinant DCAF6 protein fragment (amino acids 1-351), a high-quality reagent derived from Homo sapiens. This fragment represents a stable and soluble unit of the full-length DDB1- and CUL4-associated factor 6, optimized for structural and biochemical studies. Ideal for investigating its roles as a coactivator of nuclear receptors and potential substrate receptor in ubiquitin ligase complexes. DCAF6, also known as Androgen receptor complex-associated protein (ARCAP), is a multifunctional protein that acts as a ligand-dependent coactivator for nuclear receptors, including NR3C1 and AR, enhancing their transcriptional activity. It is also implicated as a substrate receptor component of the CUL4-DDB1 E3 ubiquitin-protein ligase complex, suggesting roles in targeted protein degradation pathways. The protein localizes to the nucleus, consistent with its functions in gene regulation and nuclear receptor signaling. This recombinant fragment provides a valuable tool for dissecting these molecular mechanisms in a purified system.