Recombinant DCA11 protein (His tag)

Catalog Number	543247
Synonyms	WD repeat-containing protein 23
Species	Human
Expression System	E. coli
Accession	Q8TEB1
Molecular Weight	Predictes a molecular mass of 53.62 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 55 kDa band.

Product Information

Sequence Region	91-546
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>89%, 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 91-546 aa (Q8TEB1) 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	Recombinant Human DCAF11 (DDB1- and CUL4-associated factor 11) Fragment (91-546) is a high-purity protein designed for structural and biochemical studies. This 456-amino acid fragment represents a stable, soluble region of DCAF11, optimized for research on its role as a substrate receptor in ubiquitin ligase complexes. DCAF11, also known as WD repeat-containing protein 23, functions as a substrate receptor for the CUL4-DDB1 E3 ubiquitin-protein ligase complex, playing a critical role in targeted protein ubiquitination and degradation pathways. This activity is supported by evidence from PubMed references 16949367 and 16964240, highlighting its importance in cellular regulation. The recombinant fragment (91-546) was selected computationally to ensure stability and solubility, enabling detailed investigations into DCAF11's molecular mechanisms without the full-length protein's complexities.