Recombinant ARMC5 protein (His tag)

Catalog Number	540955
Species	Human
Expression System	E. coli
Accession	Q96C12
Molecular Weight	Predictes a molecular mass of 45.16 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 45 kDa band.

Product Information

Sequence Region	522-935
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 522-935 aa (Q96C12) 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 ARMC5 Fragment (aa 522-935) is a high-purity protein designed for studying the BTB domain of Armadillo repeat-containing protein 5. This fragment serves as an essential tool for investigating its role in E3 ubiquitin ligase complexes, transcription regulation, and fatty acid metabolism, providing researchers with a targeted reagent for domain-specific functional analyses. Armadillo repeat-containing protein 5 (ARMC5) is a critical substrate-recognition component of the BCR (BTB-CUL3-RBX1) E3 ubiquitin ligase complex in humans. It plays a key role in terminating RNA polymerase II transcription in promoter-proximal regions by mediating ubiquitination and degradation of POLR2A phosphorylated at Ser-5, acting as a quality checkpoint during elongation. Additionally, ARMC5 regulates fatty acid desaturation through ubiquitination and degradation of SCAP-free SREBF1 and SREBF2, and is involved in fetal development, T-cell function, adrenal homeostasis, and steroidogenesis. The protein localizes to the nucleus, chromatin, and cytoplasm, associating with RNA polymerase II on chromatin. The provided fragment (aa 522-935) encompasses the BTB domain (aa 748-816), enabling focused studies on domain-specific mechanisms in ubiquitination and transcriptional regulation.