Recombinant ARMC3 protein (His tag)

Catalog Number	538225
Synonyms	Beta-catenin-like protein; Cancer/testis antigen 81; CT81; KU-CT-1
Species	Human
Expression System	E. coli
Accession	Q5W041
Molecular Weight	Predictes a molecular mass of 19.72 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 20 kDa band.

Product Information

Sequence Region	715-872
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>87%, 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 715-872 aa (Q5W041) 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 ARMC3 Fragment (715-872) is a high-purity protein derived from the Armadillo repeat-containing protein 3, essential for male fertility and sperm motility. This stable, soluble fragment is ideal for structural and biochemical studies, offering researchers a reliable tool to investigate its functional domains. The full-length Armadillo repeat-containing protein 3 (ARMC3), also known as Beta-catenin-like protein or Cancer/testis antigen 81 (CT81), plays a critical role in male fertility by supporting sperm motility. During spermatogenesis, it facilitates the autophagic degradation of excess ribosomes, thereby supplying energy to mitochondria and ensuring efficient flagellar movement in sperm. This function is conserved and vital for reproductive health, as evidenced by studies linking ARMC3 to these processes.