Recombinant ATD3C protein (His tag)

Catalog Number	551532
Species	Human
Expression System	E. coli
Accession	Q5T2N8
Molecular Weight	Predictes a molecular mass of 48.04 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 48 kDa band.

Product Information

Sequence Region	1-411
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>90%, 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 1-411 aa (Q5T2N8) 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 recombinant human ATPase family AAA domain-containing protein 3C (ATAD3C) fragment (residues 1-411), a high-purity protein designed for structural biology and functional studies. This 411-amino acid fragment represents a computationally optimized, stable, and soluble unit ideal for investigating the biochemical properties of this important AAA ATPase family member. ATPase family AAA domain-containing protein 3C (ATAD3C) is a human protein belonging to the AAA+ (ATPases Associated with diverse cellular Activities) superfamily. While specific functional details for this isoform are still being characterized, proteins in this family typically function as molecular machines that utilize ATP hydrolysis to drive conformational changes involved in diverse cellular processes such as protein quality control, membrane trafficking, and organelle biogenesis. The ATAD3 family members are generally associated with mitochondrial function and organization. This recombinant fragment (1-411) encompasses key structural domains and was selected through computational analysis to maximize stability and solubility, making it an excellent tool for researchers studying AAA ATPase structure-function relationships and molecular mechanisms.