Recombinant AT135 protein (His tag)

Catalog Number	548700
Synonyms	P5-ATPase isoform 5
Species	Human
Expression System	E. coli
Accession	Q4VNC0
Molecular Weight	Predictes a molecular mass of 50.88 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 51 kDa band.

Product Information

Sequence Region	454-902
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 454-902 aa (Q4VNC0) 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 ATP13A5 Protein Fragment (454-902) is a high-quality, stable protein product representing a computationally optimized soluble domain of Probable cation-transporting ATPase 13A5. This 449-amino acid fragment is specifically designed for structural biology studies and biochemical characterization, offering researchers a reliable tool for investigating P5-ATPase function and mechanism. The full-length ATP13A5 protein is a cation-transporting ATPase belonging to the P5-ATPase family (isoform 5) that functions in cellular ion transport processes. As a multi-pass membrane protein localized to cellular membranes, ATP13A5 plays crucial roles in maintaining cellular ion homeostasis through ATP-dependent cation transport mechanisms. This recombinant fragment provides researchers with a stable, soluble unit ideal for studying the structural and functional properties of this important membrane transport protein without the complications associated with full-length membrane protein expression and purification.