Recombinant ANKS3 protein (His tag)

Catalog Number	542974
Species	Human
Expression System	E. coli
Accession	Q6ZW76
Molecular Weight	Predictes a molecular mass of 27.29 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 30 kDa band.

Product Information

Sequence Region	428-656
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 428-656 aa (Q6ZW76) 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 ANKS3 (Ankyrin repeat and SAM domain-containing protein 3) Fragment (residues 428-656) is a high-purity protein designed for structural and biochemical studies. This 229-amino acid fragment, derived from the human ANKS3 protein, offers a stable and soluble unit ideal for investigating its role in vasopressin signaling pathways. The full-length Ankyrin repeat and SAM domain-containing protein 3 (ANKS3) is implicated in vasopressin signaling within the kidney, a critical process for regulating water reabsorption and blood pressure. According to UniProt annotations, ANKS3 localizes to the cytoplasm and cell projections, specifically cilia, suggesting its involvement in cellular signaling and sensory functions. This recombinant fragment (428-656) was selected computationally to provide a reliable tool for elucidating the protein's mechanistic contributions to renal physiology and related disorders.