Recombinant ANS4B protein (His tag)

Catalog Number	547757
Synonyms	Harmonin-interacting ankyrin repeat-containing protein; Harp
Species	Human
Expression System	E. coli
Accession	Q8N8V4
Molecular Weight	Predictes a molecular mass of 10.05 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 10 kDa band.

Product Information

Sequence Region	345-417
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>86%, 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 345-417 aa (Q8N8V4) 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 ANKS4B (SAM Domain) Protein Fragment - A high-purity recombinant protein encompassing the SAM domain (residues 345-417) of Ankyrin repeat and SAM domain-containing protein 4B. This fragment serves as an essential research tool for investigating the specific functions of the SAM domain in epithelial brush border differentiation and microvilli organization. The full-length ANKS4B protein, also known as Harmonin-interacting ankyrin repeat-containing protein (Harp), plays a critical role in epithelial brush border differentiation as part of the intermicrovillar adhesion complex (IMAC). It contributes to the proper organization and length regulation of microvilli and participates in complex assembly. The protein localizes specifically to the tips of microvilli in cell projections, and evidence suggests potential association with endoplasmic reticulum membranes. ANKS4B may also function in cellular responses to endoplasmic reticulum stress, highlighting its importance in cellular homeostasis and epithelial structure maintenance.