Recombinant ANKE1 protein (His tag)

Catalog Number	549940
Synonyms	Ankyrin repeat domain-containing protein 5
Species	Human
Expression System	E. coli
Accession	Q9NU02
Molecular Weight	Predictes a molecular mass of 52.66 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 54 kDa band.

Product Information

Sequence Region	1-459
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>89%, 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 1-459 aa (Q9NU02) 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 ANKEF1 Fragment (1-459): A high-purity protein fragment encompassing the EF-hand domain, designed for targeted investigation of calcium-binding functions and domain-specific interactions in cellular signaling pathways. Ankyrin repeat and EF-hand domain-containing protein 1 (encoded by ANKEF1) is a human protein containing structural motifs typically involved in protein-protein interactions and calcium-mediated signaling. While detailed functional and localization data are still under investigation, the presence of an EF-hand domain suggests potential roles in calcium binding and signal transduction pathways. This recombinant fragment provides researchers with a focused tool to elucidate the specific contributions of the EF-hand domain to the protein's biological activities.