Recombinant AN13D protein (His tag)

Catalog Number	545262
Species	Human
Expression System	E. coli
Accession	Q6ZTN6
Molecular Weight	Predictes a molecular mass of 35.07 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 36 kDa band.

Product Information

Sequence Region	1-291
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 1-291 aa (Q6ZTN6) 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 ANKRD13D (Ankyrin repeat domain-containing protein 13D) fragment (amino acids 1-291) is a high-purity protein designed for investigating ubiquitin-mediated signaling pathways. This fragment retains key functional properties, including selective binding to 'Lys-63'-linked ubiquitin, making it an ideal tool for structural studies and biochemical assays in EGFR regulation research. Ankyrin repeat domain-containing protein 13D (ANKRD13D) is a human ubiquitin-binding protein that specifically recognizes 'Lys-63'-linked ubiquitin chains while showing no affinity for 'Lys-48'-linked ubiquitin. It plays a critical role in regulating epidermal growth factor receptor (EGFR) internalization by binding to ubiquitinated EGFR at the cell membrane, facilitating its trafficking to late endosomes. Located at the cell membrane and late endosomes, ANKRD13D's interaction with EGFR enhances its membrane association, underscoring its importance in ubiquitin-dependent endocytic sorting and cellular signaling pathways.