Recombinant TLN2 protein (His tag)

Catalog Number	543947
Species	Human
Expression System	E. coli
Accession	Q9Y4G6
Molecular Weight	Predictes a molecular mass of 27.92 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 29 kDa band.

Product Information

Sequence Region	175-399
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 175-399 aa (Q9Y4G6) 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 Talin-2 (TLN2) Fragment (aa 175-399) is a high-purity protein designed for structural and biochemical studies. This 225-amino acid fragment offers a stable and soluble unit, ideal for investigating the role of Talin-2 in cell adhesion and cytoskeletal dynamics. Talin-2, encoded by the TLN2 gene, is a major component of focal adhesion plaques that links integrins to the actin cytoskeleton, playing a critical role in cell adhesion. It recruits PIP5K1C to focal adhesion plaques and strongly activates its kinase activity. The protein is localized to the cytoplasm, cell membrane (as a peripheral membrane protein on the cytoplasmic side), cytoskeleton, cell junctions (focal adhesions), and synapses, highlighting its importance in cellular structure and signaling pathways.