Recombinant PPR27 protein (His tag)

Catalog Number	549561
Synonyms	Dysferlin-interacting protein 1; Toonin
Species	Human
Expression System	E. coli
Accession	Q86WC6
Molecular Weight	Predictes a molecular mass of 19.09 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 20 kDa band.

Product Information

Sequence Region	1-154
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>88%, 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 1-154 aa (Q86WC6) 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 PPP1R27 (Protein phosphatase 1 regulatory subunit 27) fragment (residues 1-154), a stable and soluble unit designed for structural and biochemical studies. This Dysferlin-interacting protein 1 (Toonin) fragment retains key functional regions, enabling investigation of its role as an inhibitor of protein phosphatase 1 (PP1) complexes. Protein phosphatase 1 regulatory subunit 27 (PPP1R27), also known as Dysferlin-interacting protein 1 or Toonin, functions as an inhibitor of the phosphatase activity of protein phosphatase 1 (PP1) complexes, as supported by experimental evidence. This regulatory role highlights its importance in cellular signaling pathways where PP1-mediated dephosphorylation is critical. The provided fragment (residues 1-154) was computationally selected to ensure stability and solubility, facilitating research into its biochemical properties and interactions without the need for full-length expression.