Recombinant PZRN3 protein (His tag)

Catalog Number	546256
Synonyms	Ligand of Numb protein X 3; PDZ domain-containing RING finger protein 3; RING-type E3 ubiquitin transferase PDZRN3; Semaphorin cytoplasmic domain-associated protein 3; Protein SEMACAP3
Species	Human
Expression System	E. coli
Accession	Q9UPQ7
Molecular Weight	Predictes a molecular mass of 16.47 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 21 kDa band.

Product Information

Sequence Region	415-542
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 415-542 aa (Q9UPQ7) 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 PDZRN3 (E3 ubiquitin-protein ligase PDZRN3) Fragment (aa 415-542): A high-purity protein fragment encompassing the PDZ 2 domain, designed for studying domain-specific interactions and ubiquitin ligase mechanisms in neuromuscular junction regulation. E3 ubiquitin-protein ligase PDZRN3 (EC 2.3.2.27) plays a critical role in regulating the surface expression of MUSK (muscle-specific kinase) on myotubes by mediating its ubiquitination, promoting endocytosis and lysosomal degradation. This process contributes to terminal myogenic differentiation. The protein localizes to the cytoplasm and synapses, particularly the postsynaptic region of neuromuscular junctions, highlighting its importance in neuromuscular signaling and development. The provided fragment (aa 415-542) contains the PDZ 2 domain, enabling focused investigation into domain-specific functions such as protein-protein interactions and ubiquitin transferase activity.