Recombinant SHRM4 protein (His tag)

Catalog Number	539212
Synonyms	Second homolog of apical protein
Species	Human
Expression System	E. coli
Accession	Q9ULL8
Molecular Weight	Predictes a molecular mass of 25.16 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 29 kDa band.

Product Information

Sequence Region	1288-1493
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 1288-1493 aa (Q9ULL8) 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 Protein Shroom4 Fragment (1288-1493) is a high-quality, soluble protein fragment designed for structural and biochemical studies. This 206-amino acid fragment, derived from the SHROOM4 gene, represents a stable and well-folded region ideal for investigating the cytoskeletal regulatory functions of Shroom4 in developmental processes. Protein Shroom4 (SHROOM4) is a probable regulator of cytoskeletal architecture with important roles in development. Based on functional annotations, it modulates cellular and cytoskeletal organization by influencing the spatial distribution of myosin II. The protein localizes to the cytoplasm and cytoskeleton, where it partially colocalizes with the cytoplasmic pool of F-actin, underscoring its involvement in actin cytoskeleton dynamics. This recombinant fragment provides a focused tool for exploring these mechanisms without the complexities of the full-length protein.