Recombinant FRMD5 protein (His tag)

Catalog Number	543015
Species	Human
Expression System	E. coli
Accession	Q7Z6J6
Molecular Weight	Predictes a molecular mass of 41.57 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 42 kDa band.

Product Information

Sequence Region	1-344
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 1-344 aa (Q7Z6J6) 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 FRMD5 (FERM domain-containing protein 5) Fragment (aa 1-344) is a high-purity protein designed to encompass the complete FERM domain (aa 17-298). This fragment serves as an essential tool for investigating the protein's role in cell migration, cell-matrix interactions, and actin cytoskeleton regulation, enabling targeted functional studies of the FERM domain in vitro. The full-length FRMD5 protein is implicated in the regulation of cell migration and cell-matrix interactions, as evidenced by its interaction with integrin ITGB5, which modulates cytoplasmic tail associations with proteins like FERMT2 and TLN1. Additionally, FRMD5 may influence ROCK1 kinase activity, contributing to actin stress fiber formation. It localizes to the membrane as a single-pass membrane protein and is found at adherens junctions, underscoring its potential role in cellular adhesion and structural organization.