Recombinant RMD2 protein (His tag)

Catalog Number	541035
Synonyms	RMD-2; hRMD-2; Protein FAM82A1
Species	Human
Expression System	E. coli
Accession	Q96LZ7
Molecular Weight	Predictes a molecular mass of 29.32 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 31 kDa band.

Product Information

Sequence Region	175-410
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>89%, 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 175-410 aa (Q96LZ7) 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 Regulator of microtubule dynamics protein 2 (RMD-2), also known as FAM82A1, is offered as a stable and soluble fragment (residues 175-410). This 236-amino acid segment is ideal for structural studies, biochemical assays, and functional investigations into microtubule regulation and mitotic spindle dynamics. The full-length RMD-2 protein, encoded by the RMDN2 gene, is a single-pass membrane protein that localizes to the membrane and cytoplasm. During interphase, it is found in the cytoplasm and perinuclear regions, while in mitosis, it associates with spindle microtubules and spindle poles. This localization pattern suggests a critical role in regulating microtubule dynamics during cell division, potentially influencing spindle assembly and chromosome segregation. The provided fragment represents a computationally optimized, stable region suitable for experimental analysis of these functions.