Recombinant FERM2 protein (His tag)

Catalog Number	543345
Synonyms	Kindlin-2; Mitogen-inducible gene 2 protein; MIG-2; Pleckstrin homology domain-containing family C member 1; PH domain-containing family C member 1
Species	Human
Expression System	E. coli
Accession	Q96AC1
Molecular Weight	Predictes a molecular mass of 37.31 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 37 kDa band.

Product Information

Sequence Region	373-680
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>87%, 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 373-680 aa (Q96AC1) 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	Introducing the recombinant human Fermitin family homolog 2 (Kindlin-2) fragment (residues 373-680), a highly specific protein tool designed for investigating the pleckstrin homology (PH) domain. This 308-amino acid fragment is ideal for researchers studying integrin activation, membrane interactions, and cytoskeletal dynamics, offering a focused approach to dissect domain-specific functions in cell adhesion and signaling pathways. Fermitin family homolog 2 (Kindlin-2) is a crucial scaffolding protein in humans that enhances integrin activation through interactions with talin proteins (TLN1/TLN2). It plays a central role in strengthening integrin-mediated cell adhesion to the extracellular matrix, promoting cell spreading, and facilitating the assembly of focal adhesions. By connecting extracellular matrix adhesion sites to the actin cytoskeleton, Kindlin-2 helps orchestrate actin assembly and cell shape modulation. It localizes to key cellular structures including the cytoplasm, cell cortex, cytoskeleton, stress fibers, focal adhesions, lamellipodia membranes, and the nucleus, where it binds membranes enriched in phosphoinositides. Additionally, Kindlin-2 participates in TGFB1 and integrin signaling pathways, stabilizes active β-catenin (CTNNB1), and contributes to Wnt signaling and TCF7L2/TCF4-mediated transcription regulation, making it a multifunctional protein in cellular adhesion and signaling networks.