

FERMT2 Protein, Human, Recombinant (His)

General Information

Synonyms:	KIND2;MIG2;FERMT2;PLEKHC1;Fermitin family homolog 2;Mitogen-inducible gene 2 protein (MIG-2);Kindlin-2;Pleckstrin homology domain-containing family C member 1 (PH domain-containing family C member 1)
Protein Construction:	1-680 aa
Species:	Human
Expression Host:	E. coli
Accession:	Q96AC1
Molecular Weight:	83.8 kDa (predicted)
AA Sequence:	MALDGIRMPDGCYADGTWELSVHVTDLNRDVTLRVTGEVHIGGVMLKLVEKLDVKKDWDHALWWEKKRT WLLKTHWTLDKYGIQADAKLQFTQPQHKLLRLQLPNMKYVKVNFSDRVFKAVSDICKTFNIRHPEELSLKK PRDPTKKKKKKLDDQSEDEALELEGLPITPGSGSIYSSPGLYSKTMPTPYDAHDGSPLSPTSAWFGDSALSEG NPGILAVSQPITSPEILAKMFKPQALLDKAKINQGWLDSSRSLMEQDVKENEALLLRFKYYSFFDLNPKYDAIRI NQLYEQAKWAILLEEIECTEEEMMMFAALQYHINKLSIMTSENHLNNSDKEVDEVDAAALSDLEITLEGGKTSTI LGDITSIPELADYIKVFKPKKLTGKYKQYWCTFKDTSISCYKSKEESSGTPAHQMNLRGCEVTPDVNISGQKFN IKLLIPVAEGMNEIWLRCNEKQYAHWMAACRLASKGKTMADSSYNLEVQNILSFLKMQHLPDPQLIPEQI TTDITPECLVSPRYLKKYKNKQITARILEAHQNVAQMSLIEAKMRFIQAWQSLPEFGITHFIARFQGGKKEELIGI AYNRLIRMDASTGDAIKTWRFSNMKQWNVNWEIKMVTVEFADEVRLSFICTEVDCKVVHEFIGGYIFLSTRAK DQNESLDEEMFYKLTSGWV

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 85% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	If the delivery form is liquid, the default storage buffer is Tris/PBS-based buffer, 5%-50% glycerol. If the delivery form is lyophilized powder, the buffer before lyophilization is Tris/PBS-based buffer, 6% Trehalose, pH 8.0.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100 μg/mL. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Scaffolding protein that enhances integrin activation mediated by TLN1 and/or TLN2, but activates integrins only weakly by itself. Binds to membranes enriched in phosphoinositides. Enhances integrin-mediated cell adhesion onto the extracellular matrix and cell spreading; this requires both its ability to interact with integrins and with phospholipid membranes. Required for the assembly of focal adhesions. Participates in the connection between extracellular matrix adhesion sites and the actin cytoskeleton and also in the orchestration of actin assembly and cell shape modulation. Recruits FBLIM1 to focal adhesions. Plays a role in the TGFB1 and integrin signaling pathways. Stabilizes active CTNNB1 and plays a role in the regulation of transcription mediated by CTNNB1 and TCF7L2/TCF4 and in Wnt signaling.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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