Recombinant EFHD2 protein (His tag)

Catalog Number	549054
Synonyms	Swiprosin-1
Species	Human
Expression System	E. coli
Accession	Q96C19
Molecular Weight	Predictes a molecular mass of 23.31 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 26 kDa band.

Product Information

Sequence Region	53-240
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>86%, 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 53-240 aa (Q96C19) 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 EF-hand domain-containing protein D2 (Swiprosin-1) fragment (residues 53-240) from Homo sapiens, encompassing the complete EF-hand 1 and EF-hand 2 domains. This high-purity protein is an essential tool for investigating B-cell apoptosis regulation and NF-kappa-B signaling pathways in immunological research. EF-hand domain-containing protein D2 (Swiprosin-1), encoded by the EFHD2 gene, functions as a key regulator of B-cell receptor-induced apoptosis in immature and primary B-cells. It acts as a negative regulator of the canonical NF-kappa-B-activating pathway and controls spontaneous apoptosis through modulation of BCL2L1 protein levels. The protein localizes to membrane rafts in B-cell lines, suggesting its involvement in specialized membrane signaling complexes. This recombinant fragment specifically targets the functional EF-hand domains, enabling focused studies on calcium-binding properties and domain-specific interactions in immune cell regulation.