Recombinant EFC14 protein (His tag)

Catalog Number	551937
Species	Human
Expression System	E. coli
Accession	O75071
Molecular Weight	Predictes a molecular mass of 29.66 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 30 kDa band.

Product Information

Sequence Region	73-324
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 73-324 aa (O75071) 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 EF-hand calcium-binding domain-containing protein 14 (EFCAB14) Fragment (aa 73-324). This 252-amino acid fragment has been computationally designed for optimal stability and solubility, providing a robust reagent for structural biology, biochemical characterization, and functional studies of this calcium-binding protein. The full-length EF-hand calcium-binding domain-containing protein 14 (EFCAB14) is encoded by the EFCAB14 gene in Homo sapiens. Proteins containing EF-hand domains are typically involved in calcium ion sensing and signal transduction, suggesting a potential regulatory role for EFCAB14 in calcium-mediated cellular processes. The specific molecular function and subcellular localization of the full-length protein are areas of active research. This recombinant fragment offers a valuable tool to investigate its structure and biochemical properties.