Recombinant EFC13 protein (His tag)

Catalog Number	551196
Species	Human
Expression System	E. coli
Accession	Q8IY85
Molecular Weight	Predictes a molecular mass of 49.93 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 59 kDa band.

Product Information

Sequence Region	469-894
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>90%, 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 469-894 aa (Q8IY85) 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 calcium-binding domain-containing protein 13 (EFCAB13) fragment (residues 469-894) is engineered to encompass all five EF-hand domains (EF-hand 1 to 5), providing a precise tool for investigating calcium-binding mechanisms and domain-specific functions in cellular signaling pathways. The full-length EF-hand calcium-binding domain-containing protein 13, encoded by the EFCAB13 gene in Homo sapiens, is characterized by its EF-hand motifs, which are known to mediate calcium ion binding and play critical roles in calcium-dependent signal transduction. While specific functional and subcellular localization details are not fully elucidated, proteins containing EF-hand domains typically participate in processes such as cell cycle regulation, apoptosis, and cytoskeletal organization, highlighting the significance of EFCAB13 in cellular physiology. This recombinant fragment focuses on the EF-hand domains to enable targeted studies of their calcium-binding properties and functional contributions.