Recombinant EFCB3 protein (His tag)

Catalog Number	549022
Species	Human
Expression System	E. coli
Accession	Q8N7B9
Molecular Weight	Predictes a molecular mass of 16.19 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 16 kDa band.

Product Information

Sequence Region	43-170
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 43-170 aa (Q8N7B9) 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 3 (EFCAB3) fragment (residues 43-170) is a high-purity, functionally relevant protein designed for studying calcium signaling mechanisms. This fragment fully encompasses the EF-hand 1 and EF-hand 2 domains, providing an ideal tool for domain-specific functional assays and interaction studies. EFCAB3 is a human protein containing EF-hand calcium-binding motifs, which are critical for calcium-dependent signaling and regulatory processes in cells. While specific functional details and subcellular localization are still under investigation, EF-hand domains generally mediate calcium sensing and transduction, influencing pathways such as cell cycle control, metabolism, and gene expression. This recombinant fragment enables focused research on the structural and functional roles of its EF-hand domains in calcium-binding activities.