Recombinant EFCB5 protein (His tag)

Catalog Number	548635
Species	Human
Expression System	E. coli
Accession	A4FU69
Molecular Weight	Predictes a molecular mass of 42.50 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 47 kDa band.

Product Information

Sequence Region	116-460
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>89%, 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 116-460 aa (A4FU69) 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 5 (EFCAB5) fragment (residues 116-460), a 345-amino acid human protein segment engineered for stability and solubility. This fragment is ideal for structural studies, biochemical assays, and functional investigations in calcium-mediated signaling pathways. The full-length EF-hand calcium-binding domain-containing protein 5, encoded by the EFCAB5 gene in Homo sapiens, is characterized by its EF-hand domains, which are typically involved in calcium ion binding and cellular signaling processes. While specific functional and subcellular localization details are not fully elucidated, proteins with EF-hand domains often play roles in regulating intracellular calcium levels, influencing processes such as cell cycle progression, motility, and apoptosis. This recombinant fragment represents a stable, soluble unit designed to facilitate research into the protein's structural and mechanistic properties.