Recombinant EFC11 protein (His tag)

Catalog Number	549082
Species	Human
Expression System	E. coli
Accession	Q9BUY7
Molecular Weight	Predictes a molecular mass of 20.88 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 22 kDa band.

Product Information

Sequence Region	1-163
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 1-163 aa (Q9BUY7) 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 11 (EFCAB11) fragment (amino acids 1-163) encompassing the complete EF-hand 1, EF-hand 2, and EF-hand 3 domains. This high-purity protein is ideal for studying calcium-binding mechanisms and domain-specific functions in cellular signaling pathways. EF-hand calcium-binding domain-containing protein 11 (EFCAB11) is a human protein containing multiple EF-hand domains, which are characteristic helix-loop-helix structural motifs that selectively bind calcium ions. EF-hand domains typically function as calcium sensors and play crucial roles in calcium-mediated signaling pathways, regulating various cellular processes including muscle contraction, neurotransmitter release, and cell cycle progression. While specific functional details and subcellular localization for the full-length EFCAB11 protein are not fully characterized, proteins containing EF-hand domains are generally involved in calcium-dependent signal transduction mechanisms essential for cellular homeostasis and response to environmental stimuli.