Recombinant EFCB8 protein (His tag)

Catalog Number	552055
Species	Human
Expression System	E. coli
Accession	A8MWE9
Molecular Weight	Predictes a molecular mass of 12.49 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 13 kDa band.

Product Information

Sequence Region	53-144
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 53-144 aa (A8MWE9) 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	This high-purity recombinant protein corresponds to amino acids 53-144 of human EF-hand calcium-binding domain-containing protein 8 (EFCAB8). This 92-amino acid fragment is specifically designed to contain the EF-hand 2 domain, making it an ideal, focused reagent for investigating the structure, calcium-binding properties, and specific molecular interactions of this critical functional region. EFCAB8 (UniProt ID: A8MWE9) is a human protein containing EF-hand calcium-binding domains. EF-hand domains are a common structural motif involved in calcium sensing and signal transduction, playing crucial roles in numerous cellular processes. While the specific molecular function and subcellular localization of the full-length EFCAB8 protein are areas of active research, proteins containing EF-hand domains are typically involved in pathways regulating cell cycle, metabolism, motility, and apoptosis. This recombinant fragment provides researchers with a direct tool to study the biophysical and biochemical characteristics of its contained EF-hand domain, facilitating research into calcium-mediated signaling mechanisms.