Recombinant SCMC2 protein (His tag)

Catalog Number	547496
Synonyms	Mitochondrial ATP-Mg/Pi carrier protein 3; Mitochondrial Ca(2+)-dependent solute carrier protein 3; Short calcium-binding mitochondrial carrier protein 2; SCaMC-2; Solute carrier family 25 member 25
Species	Human
Expression System	E. coli
Accession	Q6KCM7
Molecular Weight	Predictes a molecular mass of 11.18 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 13 kDa band.

Product Information

Sequence Region	62-141
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 62-141 aa (Q6KCM7) 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 recombinant protein fragment corresponds to amino acids 62-141 of the human Mitochondrial Adenyl Nucleotide Antiporter SLC25A25, encompassing the EF-hand 2 domain. It is an essential tool for researchers investigating calcium-dependent regulation of mitochondrial adenyl nucleotide transport and energy metabolism. The full-length SLC25A25 protein functions as an electroneutral antiporter in the inner mitochondrial membrane, primarily mediating the transport of adenyl nucleotides such as ATP-magnesium and inorganic phosphate. It plays a critical role in maintaining the mitochondrial matrix adenyl nucleotide pool, thereby adapting to cellular energetic demands and regulating adenyl nucleotide-dependent metabolic pathways. Located specifically in the mitochondrial inner membrane as a multi-pass membrane protein, SLC25A25 (also known as SCaMC-2) represents a key component in mitochondrial calcium signaling and energy homeostasis.