Recombinant SFXN4 protein (His tag)

Catalog Number	545210
Synonyms	Breast cancer resistance marker 1
Species	Human
Expression System	E. coli
Accession	Q6P4A7
Molecular Weight	Predictes a molecular mass of 14.30 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 15 kDa band.

Product Information

Sequence Region	2-110
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 2-110 aa (Q6P4A7) 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 Sideroflexin-4 (SFXN4) Fragment (aa 2-110) is a high-quality protein product derived from the human mitochondrial transporter SFXN4, also known as Breast Cancer Resistance Marker 1. This 109-amino acid fragment has been computationally designed for optimal stability and solubility, making it an ideal reagent for structural studies, biochemical assays, and functional investigations into mitochondrial transport mechanisms. Sideroflexin-4 (SFXN4) is a mitochondrial inner membrane protein that functions as an amino acid transporter, though it has been specifically shown not to transport serine. As a multi-pass membrane protein localized to the mitochondrial inner membrane, SFXN4 plays important roles in mitochondrial metabolism and has been identified as a potential breast cancer resistance marker. The full-length protein's involvement in mitochondrial transport processes makes it a subject of interest for cancer research and metabolic studies. This recombinant fragment represents a structurally stable portion of the protein that maintains key characteristics while being optimized for experimental applications.