Recombinant MIA2 protein (His tag)

Catalog Number	545741
Synonyms	MIA protein 2; CTAGE family member 5 ER export factor; Cutaneous T-cell lymphoma-associated antigen 5; Meningioma-expressed antigen 6/11
Species	Human
Expression System	E. coli
Accession	Q96PC5
Molecular Weight	Predictes a molecular mass of 12.76 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 15 kDa band.

Product Information

Sequence Region	20-116
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 20-116 aa (Q96PC5) 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 Human Melanoma Inhibitory Activity Protein 2 (MIA2) Fragment (aa 20-116) – a highly specific protein fragment encompassing the SH3 domain, designed for functional studies of endoplasmic reticulum export mechanisms and large cargo transport. Melanoma Inhibitory Activity Protein 2 (MIA2) is a human transmembrane protein localized to the endoplasmic reticulum membrane and exit sites. It plays a critical role in transporting oversized cargos—such as pre-chylomicrons, pre-VLDLs, and collagen VII—that cannot be accommodated by standard COPII-coated vesicles. By facilitating the incorporation of these large molecules into specialized transport carriers and recruiting factors like PREB/SEC12 at ER exit sites, MIA2 supports lipoprotein secretion and contributes to cholesterol and triglyceride homeostasis. This positions MIA2 as a key regulator of endoplasmic reticulum export processes with implications for metabolic and dermatological research.