Recombinant SIM24 protein (His tag)

Catalog Number	551350
Species	Human
Expression System	E. coli
Accession	O75264
Molecular Weight	Predictes a molecular mass of 11.03 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 14 kDa band.

Product Information

Sequence Region	52-130
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 52-130 aa (O75264) 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 product is a high-quality recombinant protein fragment of human Small Integral Membrane Protein 24 (SMIM24). The fragment, comprising residues 52-130, has been computationally designed for optimal stability and solubility, making it an ideal reagent for structural biology, antibody development, and functional characterization studies. Small Integral Membrane Protein 24 (SMIM24), encoded by the SMIM24 gene (UniProt ID: O75264), is a human protein localized to the cellular membrane. It is annotated as a single-pass membrane protein, suggesting it traverses the lipid bilayer once and likely plays a role in membrane-associated processes. While a detailed functional summary is not yet fully characterized, its membrane localization implies potential involvement in signaling, transport, or cell adhesion pathways. The study of such integral membrane proteins is crucial for understanding fundamental cellular biology and disease mechanisms.