Recombinant TIM29 protein (His tag)

Catalog Number	549357
Synonyms	TIM29
Species	Human
Expression System	E. coli
Accession	Q9BSF4
Molecular Weight	Predictes a molecular mass of 22.76 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 24 kDa band.

Product Information

Sequence Region	78-260
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>85%, 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 78-260 aa (Q9BSF4) 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 TIM29 (78-260) is a high-quality protein fragment derived from the Mitochondrial import inner membrane translocase subunit Tim29. This 183-amino acid fragment has been computationally optimized for stability and solubility, making it an ideal tool for structural studies and biochemical assays focused on mitochondrial protein import mechanisms. The full-length TIM29 protein is a crucial component of the TIM22 complex in the mitochondrial inner membrane, which mediates the import and insertion of multi-pass transmembrane proteins into this organelle. Functioning as part of a twin-pore translocase that utilizes membrane potential as its driving force, TIM29 plays an essential role in maintaining TIM22 complex stability and facilitates the assembly of TIMM22 into the complex. Additionally, it may promote cooperation between TIM22 and TOM complexes through interaction with TOMM40. The protein is localized to the mitochondrial inner membrane as a single-pass membrane protein with its functional domains oriented toward the intermembrane space, underscoring its critical position in mitochondrial protein import machinery.