Recombinant TEX50 protein (His tag)

Catalog Number	551301
Species	Human
Expression System	E. coli
Accession	A0A1B0GTY4
Molecular Weight	Predictes a molecular mass of 11.47 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 11 kDa band.

Product Information

Sequence Region	96-177
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>88%, 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 96-177 aa (A0A1B0GTY4) 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 Testis-expressed protein 50 (TEX50), encompassing residues 96-177. This 82-amino acid fragment was computationally designed for optimal stability and solubility, making it an ideal reagent for structural biology studies, antibody production, and functional characterization. The full-length Testis-expressed protein 50 (TEX50) is a human protein encoded by the TEX50 gene (UniProt ID: A0A1B0GTY4). It is annotated as a single-pass type I membrane protein, indicating it is anchored in the cellular membrane with one transmembrane segment. While a detailed molecular function summary is not currently available, its specific expression in testis tissue and membrane localization suggest a potential role in reproductive biology or specialized cellular processes within that organ system. The provided fragment represents a soluble, structured region selected to facilitate experimental investigation of this protein.