Recombinant TEX2 protein (His tag)

Catalog Number	549818
Synonyms	Transmembrane protein 96
Species	Human
Expression System	E. coli
Accession	Q8IWB9
Molecular Weight	Predictes a molecular mass of 16.62 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 17 kDa band.

Product Information

Sequence Region	518-643
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 518-643 aa (Q8IWB9) 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 Testis-expressed protein 2 (TEX2) fragment (residues 518-643), representing a stable and soluble unit of this transmembrane protein. This fragment is ideal for investigating TEX2's role in regulating ceramide transport and maintaining lipid homeostasis during cellular stress. Testis-expressed protein 2 (TEX2), also known as Transmembrane protein 96, is a multi-pass membrane protein localized to the endoplasmic reticulum and nuclear membranes. During endoplasmic reticulum stress or elevated cellular ceramide levels, TEX2 facilitates contacts between the ER and medial-Golgi complex to enable non-vesicular ceramide transport. This process converts ceramides to complex sphingolipids in the Golgi, preventing toxic ceramide accumulation and maintaining cellular lipid balance. The protein's enrichment at membrane junctions underscores its critical role in inter-organelle communication and lipid metabolism regulation.