Recombinant TSPY2 protein (His tag)

Catalog Number	550035
Synonyms	Testis-specific Y-encoded protein Q1
Species	Human
Expression System	E. coli
Accession	A6NKD2
Molecular Weight	Predictes a molecular mass of 29.12 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 32 kDa band.

Product Information

Sequence Region	74-308
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 74-308 aa (A6NKD2) 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 TSPY2 (Testis-specific Y-encoded protein 2) Fragment (74-308) is a 235-amino acid protein fragment designed for structural and biochemical studies. This fragment represents a stable, soluble unit of the human TSPY2 protein, which is implicated in sperm differentiation and proliferation, making it an ideal tool for reproductive biology research. The full-length Testis-specific Y-encoded protein 2 (TSPY2) is a human protein that may play a role in sperm differentiation and proliferation, as suggested by its functional annotation. It localizes to both the cytoplasm and nucleus, indicating potential involvement in diverse cellular processes related to male gametogenesis. The selected fragment (amino acids 74-308) was computationally optimized to ensure stability and solubility, enabling reliable experimental applications without the challenges associated with the full-length protein.