Recombinant TSPY1 protein (His tag)

Catalog Number	537944
Synonyms	Cancer/testis antigen 78; CT78
Species	Human
Expression System	E. coli
Accession	Q01534
Molecular Weight	Predictes a molecular mass of 29.30 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 32 kDa band.

Product Information

Sequence Region	71-308
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 71-308 aa (Q01534) 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 TSPY1 (CT78) Fragment (aa 71-308) is a high-quality protein product designed for structural and biochemical studies. This 238-amino acid fragment represents a stable and soluble unit of Testis-specific Y-encoded protein 1, optimized for research applications investigating sperm differentiation and proliferation mechanisms. Testis-specific Y-encoded protein 1 (TSPY1), also known as Cancer/testis antigen 78 (CT78), is implicated in sperm differentiation and proliferation processes according to published research. The full-length protein exhibits dual subcellular localization, predominantly found in the cytoplasm but also present in the nucleus. This recombinant fragment (amino acids 71-308) was computationally selected to provide a stable, soluble protein unit that maintains structural integrity while being ideal for experimental applications in reproductive biology and cancer research contexts.