Recombinant CT55 protein (His tag)

Catalog Number	540859
Synonyms	Tumor antigen BJ-HCC-20
Species	Human
Expression System	E. coli
Accession	Q8WUE5
Molecular Weight	Predictes a molecular mass of 26.83 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 27 kDa band.

Product Information

Sequence Region	36-264
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>87%, 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 36-264 aa (Q8WUE5) 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 CT55 (Cancer/testis antigen 55) protein fragment (residues 36-264) is a high-quality, soluble product designed for structural and functional studies. This 229-amino acid fragment retains key properties for investigating the protein's role in spermatogenesis and autophagy regulation, offering researchers a reliable tool for biochemical and cellular assays. Cancer/testis antigen 55 (CT55), also known as Tumor antigen BJ-HCC-20, is a human protein encoded by the CT55 gene. It plays a significant role in spermatogenesis, with evidence suggesting involvement in regulating the autophagy pathway. The protein localizes primarily to the cytoplasm of spermatocytes and spermatogonia, and is also found in specialized structures including the acrosome and flagellum of spermatids, indicating its importance in sperm development and function. The selected fragment (residues 36-264) represents a stable, soluble region optimized for experimental applications while maintaining biological relevance.