Recombinant CT459 protein (His tag)

Catalog Number	552089
Synonyms	Cancer/testis antigen 45A9
Species	Human
Expression System	E. coli
Accession	P0DMV2
Molecular Weight	Predictes a molecular mass of 10.40 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 10 kDa band.

Product Information

Sequence Region	117-189
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 117-189 aa (P0DMV2) 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-purity recombinant protein fragment of Human Cancer/testis antigen family 45 member A9 (CT45A9), spanning residues 117-189. The 73-amino acid fragment has been computationally designed for optimal stability and solubility, making it an ideal reagent for structural biology studies, antibody development, and functional characterization of this cancer/testis antigen. Cancer/testis antigen 45A9 (CT45A9) is a member of the cancer/testis antigen family, a group of proteins whose expression is typically restricted to germ cells in normal tissues but is frequently reactivated in various human malignancies. This ectopic expression in tumors makes CT45A9 and related antigens promising targets for cancer immunotherapy and biomarkers for disease. The specific biological function and subcellular localization of the full-length CT45A9 protein are areas of active research. The provided fragment represents a strategically selected, stable region of the protein intended to facilitate experimental investigation into its structure and potential interactions.