Recombinant CT455 protein (His tag)

Catalog Number	551669
Synonyms	Cancer/testis antigen 45-5; Cancer/testis antigen 45A5
Species	Human
Expression System	E. coli
Accession	P0DMU8
Molecular Weight	Predictes a molecular mass of 10.43 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	>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 117-189 aa (P0DMU8) 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	Introducing our high-purity recombinant CT45A5 fragment (residues 117-189), derived from the human Cancer/Testis Antigen Family 45 Member A5. This 73-amino acid fragment has been computationally designed for optimal stability and solubility, making it an ideal reagent for structural studies, antibody development, and functional investigations of this cancer-associated antigen. Cancer/Testis Antigen Family 45 Member A5 (CT45A5) is a human protein belonging to the cancer/testis antigen family, whose members are typically expressed in germ cells and various malignancies but show restricted expression in normal somatic tissues. This expression pattern makes CT45A5 and related antigens promising targets for cancer immunotherapy and biomarker development. According to UniProt annotation (P0DMU8), the full-length protein localizes to the nucleus, suggesting potential roles in nuclear processes or gene regulation. The specific biological function of CT45A5 requires further investigation, but its classification as a cancer/testis antigen indicates relevance to oncogenesis and immune recognition.