Recombinant CWC27 protein (His tag)

Catalog Number	545238
Synonyms	Antigen NY-CO-10; Probable inactive peptidyl-prolyl cis-trans isomerase CWC27 homolog; PPIase CWC27; Serologically defined colon cancer antigen 10
Species	Human
Expression System	E. coli
Accession	Q6UX04
Molecular Weight	Predictes a molecular mass of 28.77 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 32 kDa band.

Product Information

Sequence Region	2-241
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 2-241 aa (Q6UX04) 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 CWC27 Fragment (2-241) is a high-purity protein designed for studying spliceosome-associated mechanisms. This fragment encompasses the full PPIase cyclophilin-type domain, offering researchers a precise tool to investigate pre-mRNA splicing and U12-type intron processing without interference from non-essential regions. The full-length CWC27 protein, also known as Serologically Defined Colon Cancer Antigen 10, functions as a component of the spliceosome, playing a critical role in pre-mRNA splicing. It is part of both the major and minor spliceosomes, with specific involvement in U12-type intron splicing. While it contains a peptidyl-prolyl cis-trans isomerase (PPIase) domain, studies indicate it is likely inactive in this enzymatic capacity. CWC27 localizes to the nucleus, aligning with its RNA processing functions. Its association with colon cancer antigens underscores its relevance in cellular regulation and disease research.