Recombinant CPEB2 protein (His tag)

Catalog Number	540606
Synonyms	CPE-BP2; CPE-binding protein 2; hCPEB-2
Species	Human
Expression System	E. coli
Accession	Q7Z5Q1
Molecular Weight	Predictes a molecular mass of 31.36 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 32 kDa band.

Product Information

Sequence Region	328-589
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 328-589 aa (Q7Z5Q1) 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 CPE-BP2 Fragment (328-589) - A high-purity protein fragment encompassing both RRM domains (RRM 1 and RRM 2) of Cytoplasmic polyadenylation element-binding protein 2, designed for studying mRNA binding and translational regulation mechanisms. Cytoplasmic polyadenylation element-binding protein 2 (CPE-BP2) plays a crucial role in translational regulation of stored mRNAs, particularly in transcriptionally inactive haploid spermatids. The protein binds to poly(U) RNA oligomers and is essential for proper cell cycle progression, specifically required for the transition from metaphase to anaphase. CPE-BP2 localizes to the cytoplasm where it functions in post-transcriptional regulation. The full-length protein's involvement in cell cycle control and mRNA regulation makes it an important target for studying translational control mechanisms in cellular development and division processes.