Recombinant CPSF2 protein (His tag)

Catalog Number	541434
Synonyms	Cleavage and polyadenylation specificity factor 100 kDa subunit; CPSF 100 kDa subunit
Species	Human
Expression System	E. coli
Accession	Q9P2I0
Molecular Weight	Predictes a molecular mass of 48.74 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 51 kDa band.

Product Information

Sequence Region	1-413
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>90%, 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 1-413 aa (Q9P2I0) 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 recombinant protein product features a stable and soluble fragment (residues 1-413) of the Cleavage and polyadenylation specificity factor subunit 2 (CPSF2) from Homo sapiens. It is designed for structural and biochemical studies, offering researchers a reliable tool to investigate the mechanisms of pre-mRNA 3'-end processing. The full-length Cleavage and polyadenylation specificity factor subunit 2 is a key component of the cleavage and polyadenylation specificity factor (CPSF) complex, which plays a critical role in pre-mRNA 3'-end formation. It recognizes the AAUAAA signal sequence and interacts with poly(A) polymerase and other factors to facilitate cleavage and polyadenylation, essential steps in mRNA maturation. Additionally, it is involved in histone 3' end pre-mRNA processing. The protein is localized in the nucleus, underscoring its importance in nuclear RNA processing events.