Recombinant NCBP2 protein (His tag)

Catalog Number	540034
Synonyms	20 kDa nuclear cap-binding protein; Cell proliferation-inducing gene 55 protein; NCBP 20 kDa subunit; CBP20; NCBP-interacting protein 1; NIP1
Species	Human
Expression System	E. coli
Accession	P52298
Molecular Weight	Predictes a molecular mass of 19.52 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 21 kDa band.

Product Information

Sequence Region	2-156
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 2-156 aa (P52298) 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 Nuclear Cap-Binding Protein Subunit 2 (NCBP2) Fragment (residues 2-156) – a high-purity protein encompassing the complete RNA Recognition Motif (RRM) domain. This fragment is an essential tool for investigating cap-binding complex functions in RNA processing, export, and decay mechanisms. Nuclear Cap-Binding Protein Subunit 2 (NCBP2), also known as CBP20, is a critical component of the cap-binding complex (CBC) that co-transcriptionally binds the 5' cap of pre-mRNAs. The CBC complex plays multifaceted roles in RNA metabolism, including pre-mRNA splicing, pioneer-round translation, nonsense-mediated mRNA decay (NMD), microRNA biogenesis, and nuclear export of mRNAs and snRNAs. NCBP2 directly recognizes m7GpppG-capped RNAs and, together with NCBP1, stabilizes high-affinity cap binding. It localizes to both the nucleus and cytoplasm, facilitating its involvement in nuclear processing and cytoplasmic translation regulatory pathways. The provided fragment (residues 2-156) contains the full RRM domain, enabling targeted studies of cap-RNA interactions and domain-specific functions.