Recombinant YBOX3 protein (His tag)

Catalog Number	537568
Synonyms	Cold shock domain-containing protein A; DNA-binding protein A; Single-strand DNA-binding protein NF-GMB
Species	Human
Expression System	E. coli
Accession	P16989
Molecular Weight	Predictes a molecular mass of 11.99 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 12 kDa band.

Product Information

Sequence Region	84-176
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>86%, 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 84-176 aa (P16989) 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 the recombinant Y-box-binding protein 3 (YBX3) fragment (residues 84-176), a 93-amino acid protein designed to encompass the complete Cold Shock Domain (CSD). This high-purity fragment serves as an essential tool for investigating the domain-specific DNA and RNA binding functions, transcriptional repression, and regulatory mechanisms of YBX3 in cellular processes. Y-box-binding protein 3 (YBX3) is a multifunctional protein in Homo sapiens that binds to the GM-CSF promoter and acts as a transcriptional repressor. It also interacts with full-length mRNA and short RNA sequences containing the 5'-UCCAUCA-3' consensus motif, suggesting potential roles in translation repression. Located in both the cytoplasm and nucleus, YBX3 is implicated in nucleic acid binding and gene regulation pathways. The provided fragment (84-176) contains the complete CSD domain (93-157), enabling focused studies on this critical functional region's contributions to YBX3's molecular interactions and regulatory activities.