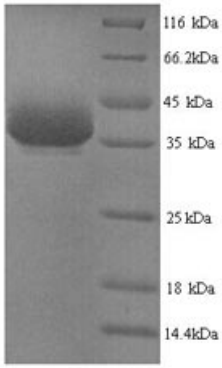
Recombinant Mouse Nuclease-sensitive element-binding protein 1 (Ybx1)

Product Code	CSB-YP026247MO
Relevance	Mediates pre-mRNA alternative splicing regulation. Component of the CRD-mediated complex that promotes MYC mRNA stability. Binds to splice sites in pre-mRNA and regulates splice site selection. Binds and stabilizes Cytoplasmic domain mRNA. Contributes to the regulation of translation by modulating the interaction between the mRNA and eukaryotic initiation factors. Binds to promoters that contain a Y-box (5'-CTGATTGGCCAA-3'), such as HLA class II genes. Regulates the transcription of numerous genes. Promotes separation of DNA strands that contain mismatches or are modified by cisplatin. Has endonucleolytic activity and can introduce nicks or breaks into double-stranded DNA (in vitro). May play a role in DNA repair. Its transcriptional activity on the multidrug resistance gene MDR1 is enhanced in presence of the APEX1 acetylated form at 'Lys-6' and 'Lys-7'. Binds preferentially to 5'-[CU]CUGCG-3' motif in vitro .The secreted form acts as an Extracellular domain mitogen and stimulates cell migration and proliferation.
Abbreviation	Recombinant Mouse Ybx1 protein
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	P62960
Alias	CCAAT-binding transcription factor I subunit A ;CBF-ADNA-binding protein B ;DBPBEnhancer factor I subunit A ;EFI-AY-box transcription factorY-box-binding protein 1 ;YB-1
Product Type	Recombinant Protein
Immunogen Species	Mus musculus (Mouse)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	SSEAETQQPPAAPAAALSAADTKPGSTGSGAGSGGPGGLTSAAPAGGDKKVIATKVLGTVKWFNVRNGYGFINRNDTKEDVFVHQTAIKKNNPRKYLRSVGDGETVEFDVVEGEKGAEAANVTGPGGVPVQGSKYAADRNHYRRYPRRRGPPRNYQQNYQNSESGEKNEGSESAPEGQAQQRRPYRRRRFPPYYMRRPYARRPQYSNPPVQGEVMEGADNQGAGEQGRPVRQNMYRGYRPRFRRGPPRQRQPREDGNEEDKENQGDETQGQQPPQRRYRRNFNYRRRRPENPKPQDGKETKAADPPAENSSAPEAEQGGAE
Research Area	Others
Source	Yeast
Target Names	Ybx1
Protein Names	Recommended name: Nuclease-sensitive element-binding protein 1 Alternative

	name(s): CCAAT-binding transcription factor I subunit A Short name= CBF-A DNA-binding protein B Short name= DBPB Enhancer factor I subunit A Short
Expression Region	2-322aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 6xHis-tagged
Mol. Weight	37.6kDa
Protein Length	Full Length of Mature Protein
Image	 (Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

Description

Introducing our Recombinant Mouse Ybx1, an accurately produced version of the Y-box-binding protein 1. This protein, also known as CCAAT-binding transcription factor I subunit A, DNA-binding protein B, Enhancer factor I subunit A, Nuclease-sensitive element-binding protein 1, and Y-box transcription factor, is native to the Mouse species. It's a crucial component in various cellular processes, making it an essential addition to your laboratory needs.

The Recombinant Mouse Ybx1 is a full-length mature protein spanning the complete expression region from 2-322 amino acids, ensuring its structural and functional fidelity to the native protein. It's produced in a yeast expression system and features an N-terminal 6xHis tag for seamless detection and purification. With a purity of over 90% as confirmed by SDS-PAGE, this product offers the quality and reliability required for your research. Depending on your specific experimental needs, the protein can be supplied in either liquid form or as a lyophilized powder.

Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL.We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.
Shelf Life	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.