重组人YBOX1蛋白

Recombinant YBOX1 protein (His tag)

目录号 Catalog Number	547146
同用名 Synonyms	YB-1; CCAAT-binding transcription factor I subunit A; CBF-A; DNA-binding protein B; DBPB; Enhancer factor I subunit A; EFI-A; Nuclease-sensitive element-binding protein 1; Y-box transcription factor
种属 Species	Human
表达系统 Expression System	E. coli
蛋白编号 Accession	P67809
分子量 Molecular Weight	Predictes a molecular mass of 11.83 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 14 kDa band.

产品信息

氨基酸序列 Amino Acid Sequence	MNHKVDKKVI ATKVLGTVKW FNVRNGYGFI NRNDTKEDVF VHQTAIKKNN PRKYLRSVGD GETVEFDVVE GEKGAEAANV TGPGGVPVQG SKYAADRNLE HHHHHH
性状 Form	冻干粉末 Lyophilized powder
组分 Formulation	Lyophilized from sterile PBS, pH 7.4
纯度 Purity	>90%, by SDS-PAGE with Coomassie Brilliant Blue staining.
内毒素 Endotoxin	Not tested.
活性 Activity	Not tested.
稳定性 Stability	Samples are stable for up to twelve months from date of receipt at -70℃
蛋白构建 Protein Construction	DNA encoding 51-143 aa (P67809) were fused with C-terminal 6His tag.

保存与运输

复溶 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.
储存 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.
运输 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.

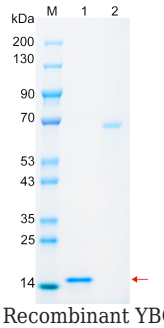
功能描述

研究背景 Background

Introducing the recombinant Y-box-binding protein 1 (YB-1) fragment (amino acids 51-143), a highly purified protein designed for in-depth functional studies. This fragment fully encompasses the Cold Shock Domain (CSD), making it an ideal tool for researchers investigating nucleic acid binding, RNA metabolism, and transcriptional regulation. Derived from human YBX1, this product offers a focused approach to dissect the specific roles of the CSD in various cellular processes.
Y-box-binding protein 1 (YB-1) is a versatile DNA- and RNA-binding protein involved in multiple critical cellular functions, including translational repression, RNA stabilization, mRNA splicing, DNA repair, and transcription regulation. It preferentially binds to specific RNA motifs, particularly those modified by C5-methylcytosine (m5C), and plays a key role in mRNA stability by recruiting ELAVL1. YB-1 is also implicated in extracellular exosome RNA sorting, regulation of epidermal progenitor senescence, and pre-mRNA alternative splicing. It localizes predominantly to the cytoplasm but translocates to the nucleus under stress or DNA damage conditions, and can also be secreted, acting as an extracellular mitogen that stimulates cell migration and proliferation. The full-length protein's multifunctional nature underscores its significance in cellular homeostasis and disease contexts.

验证数据

SDS-PAGE



Recombinant YBOX1 protein (His tag) SDS-PAGE
M: Marker; Lane 1: YBOX1; Lane 2: BSA