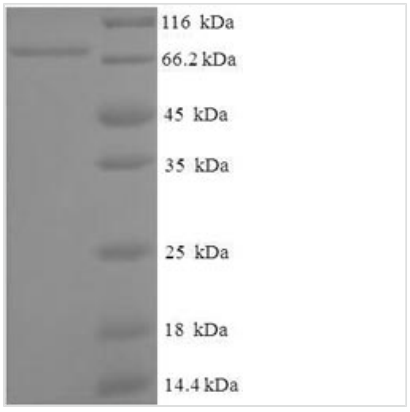
Recombinant Human ATP-dependent RNA helicase A (DHX9), partial

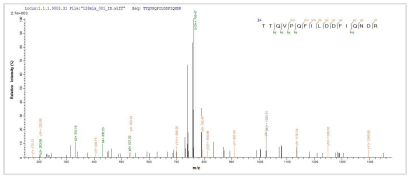
Product Code	CSB-EP600078HU
Relevance	Unwinds double-stranded DNA and RNA in a 3' to 5' direction. Alteration of secondary structure may subsequently influence interactions with proteins or other nucleic acids. Functions as a transcriptional activator. Component of the CRD-mediated complex that promotes MYC mRNA stability. Involved with LARP6 in the stabilization of type I collagen mRNAs for CO1A1 and CO1A2. As component of a large PER complex is involved in the inhibition of 3' transcriptional termination of circadian target genes such as PER1 and NR1D1 and the control of the circadian rhythms. Positively regulates HIV-1 LTR-directed gene expression.
Abbreviation	Recombinant Human DHX9 protein, partial
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.	Q08211
Alias	DEAH box protein 9Leukophysin ;LKPNuclear DNA helicase II ;NDH II
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	NQVGVVPWSPPQSNWNPWTSSNIDEGPLAFATPEQISMDLKNELMYQLEQD HDLQAILQERELLPVKKFESEILEAISQNSVVIIRGATGCGKTTQVPQFILDDFIQ NDRAAECNIVVTQPRRISAVSVAERVAFERGEEPGKSCGYSVRFESILPRPHA SIMFCTVGVLLRKLEAGIRGISHVIVDEIHERDINTDFLLVVLRDVVQAYPEVRIV LMSATIDTSMFCEYFFNCPIIEVYGRTYPVQEYFLEDCIQMTHFVPPPKDKKKK DKDDDGGEDDDANCNLICGDEYGPETRLSMSQLNEKETPFELIEALLKYIETLN VPGAVLVFLPGWNLIYTMQKHLEMNPHFGSHRYQILPLHSQIPREEQRKVFDP VPVGVTKVILSTNIAETSITINDVVYVIDSCKQKVKLFTAHNNMTNYATVWASKT NLEQRKGRAGRVRPGFCFHLCSRARFERLETHMTPEMFRTPLHEIALSIKLLRL GGIGQFLAKAIEPPPLDAVIEAEHTLRELD
Research Area	Epigenetics and Nuclear Signaling
Source	E.coli
Target Names	DHX9
Expression Region	325-840aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 6xHis-SUMO-tagged

Mol. Weight	74.6kDa
Protein Length	Partial

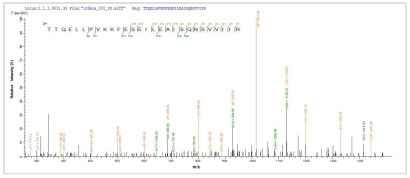
Image



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.



Based on the SEQUEST from database of E.coli host and target protein, the LC-MS/MS Analysis result of CSB-EP600078HU could indicate that this peptide derived from E.coli-expressed Homo sapiens (Human) DHX9.



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Description

The recombinant Human DHX9 was expressed with the amino acid range of 325-840. This DHX9 protein is expected to have a theoretical molecular weight of 74.6 kDa. Expression of this DHX9 protein is conducted in e.coli. Fusion of the N-terminal 6xHis-SUMO tag into the DHX9 encoding gene fragment was conducted, allowing for easier detection and purification of the DHX9 protein in subsequent stages.

Human ATP-dependent RNA helicase A (DHX9) is a crucial enzyme involved in RNA metabolism. Functioning as an RNA helicase, DHX9 unwinds RNA duplexes, facilitating processes such as transcription, translation, and RNA splicing. It is vital for RNA-protein interactions and contributes to the regulation of gene expression. DHX9 is implicated in various cellular functions, including RNA virus replication and DNA repair. In molecular biology and cell biology, DHX9 is a key focus for understanding its multifaceted roles in nucleic acid processes, offering insights into RNA-related pathways and potential therapeutic applications.

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.