

Active Recombinant Human DHX9 Protein, His tagged

Cat. No. DHX9-12H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Active human DHX9 (AA 150-1270) protein with a C-terminal 6×His tag was expressed and purified from Baculovirus infected insect cells.
Species	Human
Source	Insect Cells
ProteinLength	150-1270 aa
Description	This gene encodes a member of the DEAH-containing family of RNA helicases. The encoded protein is an enzyme that catalyzes the ATP-dependent unwinding of double-stranded RNA and DNA-RNA complexes. This protein localizes to both the nucleus and the cytoplasm and functions as a transcriptional regulator. This protein may also be involved in the expression and nuclear export of retroviral RNAs. Alternate splicing results in multiple transcript variants. Pseudogenes of this gene are found on chromosomes 11 and 13.
Tag	C-6×His
Molecular Mass	125.84 kDa
AA Sequence	MSRKEEQEVQATLESEEVDLNAGLHGNWTLNENAKARLNQYFQKEKIQGEYKYTQV GPDHNRSFIAEMTIYIKQLGRRIFAREHGSNKKLAAQSCALSLVRQLYHLGVVEAYSG LTKKKEGETVEPYKVNLSQDLEHQLQNIIQELNLEILPPPEDPSVPVALNIGKLAQFEP SQRQNQVGVPWSPQSNWNPWTSSNIDEGPLAFATPEQISMDLKNELMYQLEQD

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HDLQAILQERELLPVKKFESEILEAISQNSVVIIRGATGCGKTTQVPQFILDDFIQNDR
 AECNIVVTQPRRISAVSVAERVAFERGEEPGKSCGYSVRFESILPRPHASIMFCTVG
 VLLRKLEAGIRGISHVIVDEIHERDINTDFLLVVL RDVVQAYPEVRIVLMSATIDTSMFC
 EYFFNCPIIEVYGRTPVQEYFLEDCIQMTHFVPPPKDKKKKDKDDGGEDDDANC
 NLICGDEYGPETRLSMSQLNEKETPFELIEALLKYIETLNVP GAVLVFLPGWNLIYTMQ
 KHLEMNPHFGSHRYQILPLHSQIPREEQRKVFDPPVPGVTKVILSTNIAETSITINDVV
 YVIDSCKQKVKLFTAHHNMTNYATVWASKTNLEQRKGRAGRVRPGFCFHLCSRAR
 FERLETHMTPEMFRTPLHEIALSIKLLRLGGIGQFLAKAIEPPPLDAVIEAEHTLRELD
 LDANDELTP LGRILAKLPIEPRFGKMMIMGCIFYVGDAICTIAAATCFPEPFINEGKRLG
 YIHRNFAGNRFS DHVALLSVFQAWDDARMGGEEAEIRFCEHKRLNMATLRMTWEA
 KVQLKEILINS GFPEDCLLTQVFTNTGPDNNLDVVISLLAFGVYPNV CYHKEKRKILT
 EGRNALIHKSSVNC PFSSQDMKYSPFFVFGEKIRTR AISAKGMTLVTP LQLLLFASK
 KVQSDGQIVLVDDWIKLQISHEAAACITGLRAAMEALVVEVTKQPAISQLDPVNERM
 LNMIRQISRPSAAGINLMIGSTRYGDGPRPPK MARYDNGSGYRRGGSSYSGGGYG
 GGYSSGGYGSGGYGGSANSFRAGYGAGVGGGYRGVSRGGFRGNSGGDYRGPS
 GGYRGSGGFQRGGGRGAYGTGYFGQGRGGGGYHHHHHH*

Purity ≥80% as determined by SDS-PAGE

Usage Activity was measured using the Transcreener ADP2 FP Assay (50 µM ATP and 0.1 mg/mL Yeast RNA substrate mix in 50 mM Tris-HCl pH 7.5, 0.25 mM MgCl₂, and 0.01% Triton X-100); 10 µL Enzyme Reaction incubated at 30 centigrade for 60 minutes in a Corning low-volume 384-well plate. 20 µL Complete Reaction read on CLARIOstar Plus instrument. Fluorescent polarization values were converted to ADP formation with a 50 µM ADP Standard Curve and ADP formation was plotted using Prism (GraphPad). Under these conditions, it is recommended to use DHX9 Enzyme in the 10 µL Enzyme Reaction at a concentration between the EC₅₀ and EC₈₀ of the enzyme titration for a robust signal in the linear range.

Storage Store at -80 centigrade.

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Storage Buffer 50 mM Tris-HCl, 200 mM NaCl, 1 mM TCEP, 1 mM EDTA, 10% Glycerol, pH 7.5

Concentration 0.2 mg/mL (1.59 μ M)

GENE INFORMATION

Gene Name DHX9 DEAH (Asp-Glu-Ala-His) box polypeptide 9 [Homo sapiens]

Official Symbol DHX9

Synonyms DHX9; DEAH (Asp-Glu-Ala-His) box polypeptide 9; DDX9, DEAD/H (Asp Glu Ala Asp/His) box polypeptide 9 (RNA helicase A, nuclear DNA helicase II; leukophysin) , LKP; ATP-dependent RNA helicase A; NDH II; RHA; leukophysin; DEAH box protein 9; nuclear DNA helicase II; DEAD/H (Asp-Glu-Ala-Asp/His) box polypeptide 9; LKP; DDX9; NDH2; NDHII; FLJ17406

Gene ID 1660

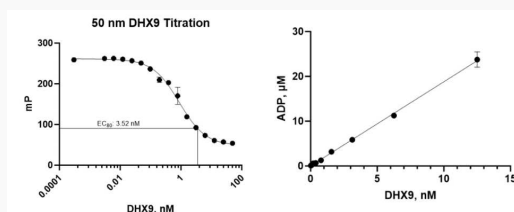
mRNA Refseq NM_001357

Protein Refseq NP_001348

MIM 603115

UniProt ID Q08211

Functional Activity



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