

Recombinant Human DEAD (Asp-Glu-Ala-Asp) box helicase 56, His-tagged

Cat. No. DDX56-275H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	DDX56, 1-547 aa, Human, His tag, E.coli
Species	Human
Source	E.coli
ProteinLength	1-547 a.a.
Description	DDX56 is a member of the DEAD box protein family. DEAD box proteins, characterized by the conserved motif Asp-Glu-Ala-Asp (DEAD), are putative RNA helicases. They are implicated in a number of cellular processes involving alteration of RNA secondary structure such as translation initiation, nuclear and mitochondrial splicing, and ribosome and spliceosome assembly. Based on their distribution patterns, some members of this family are believed to be involved in embryogenesis, spermatogenesis, and cellular growth and division. DDX56 shows ATPase activity in the presence of polynucleotides and associates with nucleoplasmic 65S preribosomal particles. Recombinant human DDX56 protein, fused to His-tag at N-terminus, was expressed in E.coli.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 0.4M urea
Molecular Mass	64.0 kDa (570aa)
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSMEDESEAL GFEHMGLDPR LLQAVTDLGW

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SRPTLIQEKA IPLALEGKDL LARARTGSGK TAAYAIPMLQ LLLHRKATGP
 VVEQAVRGLV LVPTKELARQ AQSMIQQLAT YCARDVRVAN VSAAEDSVSQ
 RAVLMEKPDV VVGTPSRILS HLQQDSLKLR DSLELLVVDE ADLLFSFGFE
 EELKSLCHL PRIYQAF LMS ATFNEDVQAL KELILHNPVT LKLQESQLPG
 PDQLQQFQVV CETEEDKFL LYALLKLSLI RGKSLLFVNT LERSYRLRLF
 LEQFSIPTCV LNGELPLRSR CHIISQFNQG FYDCVIATDA EVLGAPVKGK
 RRRGRGPKGDK ASDPEAGVAR GIDFHHVSAV LNFDLPPTPE AYIHRAGRTA
 RANNP GIVLT FVLPT EQFHL GKIEELLSGE NRGPI LLYQ FRMEEIEGFR
 YRCRDAMRSV TKQAIREARL KEIKEELLHS EKLKTYFEDN PRDLQLLRHD
 LPLHPAVVKP HLGHVDPYLV PPALRGLVRP HKKRKKLSSS CRKAKRAKSQ
 NPLRSFKHKG KKRPTAKPS

Purity >85% by SDS - PAGE

Storage Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.

Concentration 1mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name DDX56 DEAD (Asp-Glu-Ala-Asp) box helicase 56 [Homo sapiens]

Official Symbol DDX56

Synonyms DDX56; DEAD (Asp-Glu-Ala-Asp) box helicase 56; DEAD (Asp Glu Ala Asp) box polypeptide 56; probable ATP-dependent RNA helicase DDX56; NOH61; nucleolar helicase of 61 kDa; DEAD box protein 21; DEAD box protein 56; DEAD-box RNA helicase; 61-kd nucleolar helicase; putative nucleolar RNA helicase; DEAD (Asp-Glu-Ala-Asp) box polypeptide 56; ATP-dependent 61 kDa nucleolar RNA helicase;

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	DDX21; DDX26;
Gene ID	54606
mRNA Refseq	NM_001257189
Protein Refseq	NP_001244118
MIM	608023
UniProt ID	Q9NY93
Chromosome Location	7p13
Function	ATP binding; ATP-dependent RNA helicase activity; RNA binding; helicase activity; hydrolase activity; nucleotide binding;

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