
Product Data Sheet

Product Name: DDX56 Human
 Cat. No.: GP23311
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.

Synonyms DEAD (Asp-Glu-Ala-Asp) Box Helicase 56; 61-Kd Nucleolar Helicase; DEAD (Asp-Glu-Ala-Asp) Box Polypeptide 56; DDX26; Nucleolar Helicase Of 61 KDa; DEAD-Box RNA Helicase; DDX21; Probable ATP-Dependent RNA Helicase DDX56; NOH61; Putative Nucleolar RNA Helicase; ATP-Dependent 61 KDa Nucleolar RNA Helicase; EC 3.6.4.13; DEAD Box Protein 21; EC 3.6.1; DEAD Box Protein 56.

Amino Acid Sequence
 MGSSHHHHH SSGLVPRGSH MGSMESEAL GFEHMGLDPR LLQAVTDLGW
 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
 RRGRGPKGDK ASDPEAGVAR GIDFHHVSAV LNFDPPTPE AYIHRAGRTA
 RANNP GIVLT FVLPT EQFHL GKIEELLSGE NRGPI LLYQ FRMEEIEGFR
 YRCRDAMRSV TKQAIREARL KEIKEELLHS EKLKTYFEDN PRDLQLLRHD
 LPLHPAVVKP HLGHVDPYLV PPALRGLV RP HKKRKKLSSS CRKAKRAKSQ
 NPLRSFKHKG KKFRTAKPS.

Formulation DDX56 protein solution (1mg/ml) containing 20mM Tris-HCl buffer (pH8.0), 10% glycerol and 0.4M urea.

Introduction

DEAD Box Protein 56 (DDX56) belongs to the DEAD box protein family. DEAD box proteins, categorized by the conserved motif Asp-Glu-Ala-Asp (DEAD), are putative RNA helicases. DEAD box proteins are implicated in several cellular processes involving

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alteration of RNA secondary structure such as translation initiation, nuclear and mitochondrial splicing, and ribosome and spliceosome assembly. Based upon their distribution patterns, certain members of this family are assumed to be involved in embryogenesis, spermatogenesis, and cellular growth and division. DDX56 exhibits ATPase activity in the presence of polynucleotides and associates with nucleoplasmic 65S preribosomal particles.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

DDX56 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 570 amino acids (1-547 a.a) and having a molecular mass of 64kDa. DDX56 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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