Recombinant human DDX56 protein

Catalog Number: ATGP2358

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-547aa

UniProt No.
Q9NY93

NCBI Accession No.
NP_061955

Alternative Names
probable ATP-dependent RNA helicase DDX56 isoform 1, DDX21, DDX26, NOH61

PRODUCT SPECIFICATION

Molecular Weight
64.0 kDa (570aa)

Concentration
1mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 0.4M urea

Purity
> 85% by SDS-PAGE

Tag
His-Tag

Application
SDS-PAGE,Denatured

Storage Condition
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

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.

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Recombinant human DDX56 protein, fused to His-tag at N-terminus, was expressed in E. coli.

Amino acid Sequence

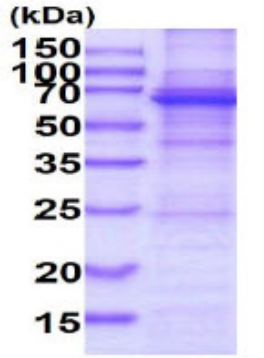
MGSSHHHHHH SSGLVPRGSH MGSMEDSEAL GFEHMGLDPR LLQAVTDLGW SRPTLIQEKA IPLALEGKDL LARARTGSGK TAAYAIPMLQ LLLHRKATGP VVEQAVRGLV LVPTKELARQ AQSMIQQLAT YCARDVRVAN VSAAEDSVSQ RAVLMEKPDV VVGTPSRILS HLQQDSLKLR DSLELLVVDE ADLLFSFGFE EELKSLLCHL PRIYQAFLMS ATFNEDVQAL KELILHNPVT LKLQESQLPG PDQLQQFQVV CETEEDKFLL LYALLKLSLI RGKSLLFVNT LERSYRLRLF LEQFSIPTCV LNGELPLRSR CHIISQFNQG FYDCVIATDA EVLGAPVKGK RRGRGPKGDK ASDPEAGVAR GIDFHHVSAV LNFDLPPTPE AYIHRAGRTA RANNPGIVLT FVLPTEQFHL GKIEELLSGE NRGPILLPYQ FRMEEIEGFR YRCRDAMRSV TKQAIREARL KEIKEELLHS EKLKTYFEDN PRDLQLLRHD LPLHPAVVKP HLGHVPDYLV PPALRGLVRP HKKRKKLSSS CRKAKRAKSQ NPLRSFKHKG KKFRPTAKPS

General References

Matsuoka S., et al (2007). Science 316:1160-1166

DATA

SDS-PAGE



15% SDS-PAGE (3ug)

3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.