

Recombinant Human DDX5 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. DDX5-4592H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	DDX5 MS Standard C13 and N15-labeled recombinant protein (NP_004387) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	This gene encodes a member of the DEAD box family of RNA helicases that are involved in a variety of cellular processes as a result of its role as an adaptor molecule, promoting interactions with a large number of other factors. This protein is involved in pathways that include the alteration of RNA structures, plays a role as a coregulator of transcription, a regulator of splicing, and in the processing of small noncoding RNAs. Members of this family contain nine conserved motifs, including the conserved Asp-Glu-Ala-Asp (DEAD) motif, important to ATP binding and hydrolysis as well as RNA binding and unwinding activities. Dysregulation of this gene may play a role in cancer development. Alternative splicing results in multiple transcript variants.
Molecular Mass	69.1 kDa
AA Sequence	MSGYSSDRDRGRDRGFGAPRFGGSRAGPLSGKKFGNPGEKLVKKKWNLDELPKF EKNFYQEHPDLARRTAQEVETYYRRSKEITVRGHNCPPKPVLFYFYEANFPANVMDVIA RQNFTEPTAIQAQGWVVALSGLDMVGVAQTGSGKTLSYLLPAIVHINHQPFLERGD

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GPICLVLAPTRELAQQVQQVAAEYCRACRLKSTCIYGGAPKGPQIRDLERGVEICIAT
 PGRIDFLECGKTNLRRTTYLVLDEADRLMDMGFEPQIRKIVDQIRPDRQTLMW SAT
 WPKEVRQLAEDFLKDYIHINIGALELSANHNILQIVDVCHDVEKDEKLIRLMEEIMSEK
 ENKTIVFVETKRRCEDELTRKMRRDGPAMGIHGDKSQQQERDWVLNEFKHKGAPILI
 ATDVASRGLDVEDVKFVINYDYPNSSEDIHHRIGRTARSTKTGTAYTFFTPNNIKQVS
 DLISVLREANQAINPKLLQLVEDRGSGRSRGRGGMKDDRRDRYSAGKRGGFNTFR
 DRENYDRGYSSLLKRDFGAKTQNGVYSAANYTNGSFGSNFVSAGIQTSFRTGNPT
 GTYQNGYDSTQQYGSNVPNMHNGMNQQAYAYPATAAAPMIGYPMPTGYSQTRTR
 PLEQKLISEEDLAANDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 µg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name	DDX5 DEAD-box helicase 5 [Homo sapiens (human)]
Official Symbol	DDX5
Synonyms	DDX5; DEAD (Asp-Glu-Ala-Asp) box helicase 5; DEAD (Asp Glu Ala Asp) box polypeptide 5, DEAD/H (Asp Glu Ala Asp/His) box polypeptide 5 (RNA helicase, 68kD), G17P1, HLR1; probable ATP-dependent RNA helicase DDX5; p68; DEAD box-5; RNA helicase p68; DEAD box protein 5; ATP-dependent RNA helicase DDX5;

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DEAD (Asp-Glu-Ala-Asp) box polypeptide 5; DEAD/H (Asp-Glu-Ala-Asp/His) box polypeptide 5 (RNA helicase, 68kD); HLR1; G17P1; HUMP68; DKFZp434E109; DKFZp686J01190;

Gene ID [1655](#)

mRNA Refseq [NM_004396](#)

Protein Refseq [NP_004387](#)

MIM [180630](#)

UniProt ID [P17844](#)

SDS-PAGE

