Datasheet for ABIN7553652

DDX5 Protein (AA 1-614) (His tag)

Go to Product page

Overview

Quantity:	1 mg
Target:	DDX5
Protein Characteristics:	AA 1-614
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This DDX5 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant DDX5 Protein expressed in mammalian cells.
Sequence:	MSGYSSDRDR GRDRGFGAPR FGGSRAGPLS GKKFGNPGEK LVKKKWNLDE LPKFEKNFYQ EHPDLARRTA QEVETYRRSK EITVRGHNCP KPVLNFYEAN FPANVMDVIA RQNFTEPTAI QAQGWPVALS GLDMVGVAQT GSGKTLSYLL PAIVHINHQP FLERGDGPIC LVLAPTRELA QQVQQVAAEY CRACRLKSTC IYGGAPKGPQ IRDLERGVEI CIATPGRLID FLECGKTNLR RTTYLVLDEA DRMLDMGFEP QIRKIVDQIR PDRQTLMWSA TWPKEVRQLA EDFLKDYIHI NIGALELSAN HNILQIVDVC HDVEKDEKLI RLMEEIMSEK ENKTIVFVET KRRCDELTRK MRRDGWPAMG IHGDKSQQER DWVLNEFKHG KAPILIATDV ASRGLDVEDV KFVINYDYPN SSEDYIHRIG RTARSTKTGT AYTFFTPNNI KQVSDLISVL REANQAINPK LLQLVEDRGS GRSRGRGGMK DDRRDRYSAG KRGGFNTFRD RENYDRGYSS LLKRDFGAKT QNGVYSAANY TNGSFGSNFV SAGIQTSFRT GNPTGTYQNG YDSTQQYGSN VPNMHNGMNQ QAYAYPATAA APMIGYPMPT GYSQ **Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make**

Product Details

	another tag necessary. In case you have a special request, please contact us.
Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.
Characteristics:	Key Benefits: • Made to order protein - from design to production - by highly experienced protein experts. • Protein expressed in mammalian cells and purified in one-step affinity chromatography • The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins. • State-of-the-art algorithm used for plasmid design (Gene synthesis). This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein. If you are not interested in a full length protein, please contact us for individual protein fragments. The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.
Purity:	> 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)
Grade:	custom-made

Target Details

Target:	DDX5
Alternative Name:	DDX5 (DDX5 Products)
Background:	Probable ATP-dependent RNA helicase DDX5 (EC 3.6.4.13) (DEAD box protein 5) (RNA helicase p68),FUNCTION: Involved in the alternative regulation of pre-mRNA splicing, its RNA helicase activity is necessary for increasing tau exon 10 inclusion and occurs in a RBM4-dependent manner. Binds to the tau pre-mRNA in the stem-loop region downstream of exon 10. The rate of ATP hydrolysis is highly stimulated by single-stranded RNA. Involved in transcriptional regulation, the function is independent of the RNA helicase activity. Transcriptional coactivator for androgen receptor AR but probably not ESR1. Synergizes with DDX17 and SRA1 RNA to activate MYOD1 transcriptional activity and involved in skeletal muscle differentiation. Transcriptional coactivator for p53/TP53 and involved in p53/TP53 transcriptional response to DNA damage and p53/TP53-dependent apoptosis. Transcriptional coactivator for RUNX2 and

Target Details

	involved in regulation of osteoblast differentiation. Acts as a transcriptional repressor in a promoter-specific manner, the function probably involves association with histone deacetylases, such as HDAC1. As component of a large PER complex is involved in the inhibition of 3' transcriptional termination of circadian target genes such as PER1 and NR1D1 and the control of the circadian rhythms. {ECO:0000269|PubMed:12527917, ECO:0000269|PubMed:15298701, ECO:0000269|PubMed:15660129, ECO:0000269|PubMed:17011493, ECO:0000269|PubMed:17960593, ECO:0000269|PubMed:18829551, ECO:0000269|PubMed:19718048, ECO:0000269|PubMed:21343338}.
Molecular Weight:	69.1 kDa
UniProt:	P17844
Pathways:	Intracellular Steroid Hormone Receptor Signaling Pathway, Regulation of Intracellular Steroid Hormone Receptor Signaling, Nuclear Hormone Receptor Binding, Regulation of Muscle Cell Differentiation, Positive Regulation of Response to DNA Damage Stimulus

Application Details

Application Notes:	We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months