

Datasheet for ABIN7553707
DHX58 Protein (AA 1-678) (His tag)



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Overview

Quantity:	1 mg
Target:	DHX58
Protein Characteristics:	AA 1-678
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This DHX58 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant DHX58 Protein expressed in mammalian cells.
Sequence:	MELRSYQWEV IMPALEGKNI IWLPTGAGK TRAAAYVAKR HLETVDGAKV VVLVNRVHLV TQHGEFFRRM LDGRWTVTTL SGDMGPRAGF GHLARCHDLL ICTAELLQMA LTSPEEEHV ELTVFSLIV DECHHCHKDT VYNVIMSQYL ELKLQRAQPL PQVLGLTASP GTGGASKLDG AINHVLQLCA NLDTWCIMSP QNCCPQLQEH SQQPCKQYNL CHRRSQDPFG DLLKKLMDQI HDHLEMPELS RKFQGTQMYEQ QVVKLSEAAA LAGLQEQRVY ALHLRRYNDAL LIHDTVRAV DALAALQDFY HREHVTKTQI LCAERLLAL FDDRKNELAH LATHGPENPK LEMLEKILQR QFSSNSPRG IIFTRTRQSA HLLLLWLQQQ QGLQTVDIRA QLLIGAGNSS QSTHMTQRDQ QEVIQKFQDG TLNLLVATSV AEEGLDIPHC NVVVRVGLLT NEISMVQARG RARADQSVYA FVATEGSREL KRELINEALE TLMEQAVAAV QKMDQAEYQA KIRDQQAAL TKRAAQAAQR ENQRQFPVE HVQLLCINCM VAVGHGSDLR KVEGTHHVNV NPNFSNYYNV SRDPVWINKV FKDWKPGGVI SCRNCGEVWG LQMIYKSVKL PVLKVRSMML ETPQGRIQAK KWSRVPFVSP DFDFLQHCAE NLSDSLSD Sequence without tag. The proposed Purification-Tag is based on

Product Details

experiences with the expression system, a different complexity of the protein could make 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: DHX58

Alternative Name: DHX58 ([DHX58 Products](#))

Background: ATP-dependent RNA helicase DHX58 (EC 3.6.4.13) (ATP-dependent helicase LGP2) (Protein D11Lgp2 homolog) (RIG-I-like receptor 3) (RLR-3) (RIG-I-like receptor LGP2) (RLR),FUNCTION: Acts as a regulator of RIGI and IFIH1/MDA5 mediated antiviral signaling. Cannot initiate antiviral signaling as it lacks the CARD domain required for activating MAVS/IPS1-dependent signaling events. Can have both negative and positive regulatory functions related to RIGI and IFIH1/MDA5 signaling and this role in regulating signaling may be complex and could probably depend on characteristics of the infecting virus or target cells, or both. Its inhibitory action on RIG-I signaling may involve the following mechanisms: competition with RIGI for binding to the viral RNA, binding to RIGI and inhibiting its dimerization and interaction with MAVS/IPS1,

Target Details

competing with IKBKE in its binding to MAVS/IPS1 thereby inhibiting activation of interferon regulatory factor 3 (IRF3). Its positive regulatory role may involve unwinding or stripping nucleoproteins of viral RNA thereby facilitating their recognition by RIGI and IFIH1/MDA5. Involved in the innate immune response to various RNA viruses and some DNA viruses such as poxviruses and coronavirus SARS-CoV-2, and also to the bacterial pathogen *Listeria monocytogenes* (PubMed:31256877). Can bind both ssRNA and dsRNA, with a higher affinity for dsRNA. Shows a preference to 5'-triphosphorylated RNA, although it can recognize RNA lacking a 5'-triphosphate. {ECO:0000269|PubMed:16116171, ECO:0000269|PubMed:17020950, ECO:0000269|PubMed:17190814, ECO:0000269|PubMed:18411269, ECO:0000269|PubMed:19208642, ECO:0000269|PubMed:19211564, ECO:0000269|PubMed:19278996, ECO:0000269|PubMed:19380577, ECO:0000269|PubMed:21187438, ECO:0000269|PubMed:21525357, ECO:0000269|PubMed:31256877}.

Molecular Weight: 76.6 kDa

UniProt: [Q96C10](#)

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