Datasheet for ABIN7554585

MOV10 Protein (AA 1-1003) (His tag)

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Overview

Quantity:	1 mg
Target:	MOV10
Protein Characteristics:	AA 1-1003
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This MOV10 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Purpose:	Custom-made recombinat MOV10 Protein expressed in mammalien cells.
Sequence:	MPSKFSCRQL REAGQCFESF LVVRGLDMET DRERLRTIYN RDFKISFGTP APGFSSMLYG MKIANLAYVT KTRVRFFRLD RWADVRFPEK RRMKLGSDIS KHHKSLLAKI FYDRAEYLHG KHGVDVEVQG PHEARDGQLL IRLDLNRKEV LTLRLRNGGT QSVTLTHLFP LCRTPQFAFY NEDQELPCPL GPGECYELHV HCKTSFVGYF PATVLWELLG PGESGSEGAG TFYIARFLAA VAHSPLAAQL KPMTPFKRTR ITGNPVVTNR IEEGERPDRA KGYDLELSMA LGTYYPPPRL RQLLPMLLQG TSIFTAPKEI AEIKAQLETA LKWRNYEVKL RLLLHLEELQ MEHDIRHYDL ESVPMTWDPV DQNPRLLTLE VPGVTESRPS VLRGDHLFAL LSSETHQEDP ITYKGFVHKV ELDRVKLSFS MSLLSRFVDG LTFKVNFTFN RQPLRVQHRA LELTGRWLLW PMLFPVAPRD VPLLPSDVKL KLYDRSLESN PEQLQAMRHI VTGTTRPAPY IIFGPPGTGK TVTLVEAIKQ VVKHLPKAHI LACAPSNSGA DLLCQRLRVH LPSSIYRLLA PSRDIRMVPE DIKPCCNWDA KKGEYVFPAK KKLQEYRVLI TTLITAGRLV SAQFPIDHFT HIFIDEAGHC MEPESLVAIA

Product Details

	GLMEVKETGD PGGQLVLAGD PRQLGPVLRS PLTQKHGLGY SLLERLLTYN SLYKKGPDGY DPQFITKLLR NYRSHPTILD IPNQLYYEGE LQACADVVDR ERFCRWAGLP RQGFPIIFHG VMGKDEREGN SPSFFNPEEA ATVTSYLKLL LAPSSKKGKA RLSPRSVGVI SPYRKQVEKI RYCITKLDRE LRGLDDIKDL KVGSVEEFQG QERSVILIST VRSSQSFVQL DLDFNLGFLK NPKRFNVAVT RAKALLIIVG NPLLLGHDPD WKVFLEFCKE NGGYTGCPFP AKLDLQQGQN LLQGLSKLSP STSGPHSHDY LPQEREGEGG LSLQVEPEWR NEL **Sequence without tag. The proposed Purification-Tag is based on 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.**
Characteristics:	Key Benefits: • Made to order protein - from design to production - by highly experienced protein experts. • Protein expressed in mammalien 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, Western Blot
Grade:	custom-made

Target Details

Target:	MOV10
Alternative Name:	MOV10 (MOV10 Products)
Background:	Helicase MOV-10 (EC 3.6.4.13) (Armitage homolog) (Moloney leukemia virus 10 protein),FUNCTION: 5' to 3' RNA helicase that is involved in a number of cellular roles ranging from mRNA metabolism and translation, modulation of viral infectivity, inhibition of retrotransposition, or regulation of synaptic transmission (PubMed:23093941). Plays an

	important role in innate antiviral immunity by promoting type I interferon production (PubMed:27016603, PubMed:35157734, PubMed:27974568). Mechanistically, specifically uses IKKepsilon/IKBKE as the mediator kinase for IRF3 activation (PubMed:27016603, PubMed:35157734). Blocks HIV-1 virus replication at a post-entry step (PubMed:20215113). Counteracts HIV-1 Vif-mediated degradation of APOBEC3G through its helicase activity by interfering with the ubiquitin-proteasome pathway (PubMed:29258557). Inhibits also hepatitis B virus/HBV replication by interacting with HBV RNA and thereby inhibiting the early step of viral reverse transcription (PubMed:31722967). Contributes to UPF1 mRNA target degradation by translocation along 3' UTRs (PubMed:24726324). Required for microRNA (miRNA)-mediated gene silencing by the RNA-induced silencing complex (RISC). Required for both miRNA-mediated translational repression and miRNA-mediated cleavage of complementary mRNAs by RISC (PubMed:16289642, PubMed:17507929, PubMed:22791714). In cooperation with FMR1, regulates miRNA-mediated translational repression by AGO2 (PubMed:25464849). Restricts retrotransposition of long interspersed element-1 (LINE-1) in cooperation with TUT4 and TUT7 counteracting the RNA chaperonne activity of L1RE1 (PubMed:30122351, PubMed:23093941). Facilitates LINE-1 uridylation by TUT4 and TUT7 (PubMed:30122351). Required for embryonic viability and for normal central nervous system development and function. Plays two critical roles in early brain development: suppresses retroelements in the nucleus by directly inhibiting cDNA synthesis, while regulates cytoskeletal mRNAs to influence neurite outgrowth in the cytosol (By similarity). May function as a messenger ribonucleoprotein (mRNP) clearance factor (PubMed:24726324). {ECO:0000250|UniProtKB:P23249, ECO:0000269|PubMed:16289642, ECO:0000269|PubMed:17507929, ECO:0000269|PubMed:20215113, ECO:0000269|PubMed:22791714, ECO:0000269|PubMed:23093941, ECO:0000269|PubMed:24726324, ECO:0000269|PubMed:25464849, ECO:0000269|PubMed:27016603, ECO:0000269|PubMed:27974568, ECO:0000269|PubMed:29258557, ECO:0000269|PubMed:30122351, ECO:0000269|PubMed:31722967, ECO:0000269|PubMed:35157734}., FUNCTION: (Microbial infection) Required for RNA-directed transcription and replication of the human hepatitis delta virus (HDV). Interacts with small capped HDV RNAs derived from genomic hairpin structures that mark the initiation sites of RNA-dependent HDV RNA transcription. {ECO:0000269|PubMed:18552826}.
Molecular Weight:	113.7 kDa
UniProt:	Q9HCE1
Pathways:	Fc-epsilon Receptor Signaling Pathway, EGFR Signaling Pathway, Neurotrophin Signaling Pathway, SARS-CoV-2 Protein Interactome

Application Details

Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies as well. 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

