

Datasheet for ABIN7554100

DNA Helicase B Protein (HELB) (AA 1-1087) (His tag)



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Quantity:	1 mg	
Target:	DNA Helicase B (HELB)	
Protein Characteristics:	AA 1-1087	
Origin:	Human	
Source:	HEK-293 Cells	
Protein Type:	Recombinant	
Purification tag / Conjugate:	This DNA Helicase B protein is labelled with His tag.	

Product Details

Purpose:	Custom-made recombinant HELB Protein expressed in mammalian cells.
Sequence:	MARSSPYLRQ LQGPLLPPRD LVEEDDDYLN DDVEEDEESV FIDAEELCSG GVKAGSLPGC
	LRVSICDENT QETCKVFGRF PITGAWWRVK VQVKPVVGSR SYQYQVQGFP SYFLQSDMSP
	PNQKHICALF LKECEVSSDD VNKFLTWVKE VSNYKNLNFE NLRETLRTFH KETGRKDQKQ
	PTQNGQEELF LDNEMSLPLE NTIPFRNVMT ALQFPKIMEF LPVLLPRHFK WIIGSGSKEM
	LKEIEEILGT HPWKLGFSKI TYREWKLLRC EASWIAFCQC ESLLQLMTDL EKNALIMYSR
	LKQICREDGH TYVEVNDLTL TLSNHMSFHA ASESLKFLKD IGVVTYEKSC VFPYDLYHAE
	RAIAFSICDL MKKPPWHLCV DVEKVLASIH TTKPENSSDD ALNESKPDEV RLENPVDVVD
	TQDNGDHIWT NGENEINAEI SEVQLDQDQV EVPLDRDQVA ALEMICSNPV TVISGKGGCG
	KTTIVSRLFK HIEQLEEREV KKACEDFEQD QNASEEWITF TEQSQLEADK AIEVLLTAPT
	GKAAGLLRQK TGLHAYTLCQ VNYSFYSWTQ TMMTTNKPWK FSSVRVLVVD EGSLVSVGIF
	KSVLNLLCEH SKLSKLIILG DIRQLPSIEP GNLLKDLFET LKSRNCAIEL KTNHRAESQL
	IVDNATRISR RQFPKFDAEL NISDNPTLPI SIQDKTFIFV RLPEEDASSQ SSKTNHHSCL

	YSAVKTLLQE NNLQNAKTSQ FIAFRRQDCD LINDCCCKHY TGHLTKDHQS RLVFGIGDKI
	CCTRNAYLSD LLPENISGSQ QNNDLDASSE DFSGTLPDFA KNKRDFESNV RLCNGEIFFI
	TNDVTDVTFG KRRSLTINNM AGLEVTVDFK KLMKYCRIKH AWARTIHTFQ GSEEQTVVYV
	VGKAGRQHWQ HVYTAVTRGR CRVYVIAEES QLRNAIMKNS FPRKTRLKHF LQSKLSSSGA
	PPADFPSPRK SSGDSGGPST PSASPLPVVT DHAMTNDVTW SEASSPDERT LTFAERWQLS
	SPDGVDTDDD LPKSRASKRT CGVNDDESPS KIFMVGESPQ VSSRLQNLRL NNLIPRQLFK
	PTDNQET 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.
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:	DNA Helicase B (HELB)
Alternative Name:	HELB (HELB Products)
Background:	DNA helicase B (hDHB) (EC 3.6.4.12),FUNCTION: 5'-3' DNA helicase involved in DNA damage
	response by acting as an inhibitar of DNA and respection (DubMed:25617833

response by acting as an inhibitor of DNA end resection (PubMed:25617833,

PubMed:26774285). Recruitment to single-stranded DNA (ssDNA) following DNA damage leads to inhibit the nucleases catalyzing resection, such as EXO1, BLM and DNA2, possibly via the 5'-3' ssDNA translocase activity of HELB (PubMed:26774285). As cells approach S phase, DNA end resection is promoted by the nuclear export of HELB following phosphorylation (PubMed:26774285). Acts independently of TP53BP1 (PubMed:26774285). Unwinds duplex DNA with 5'-3' polarity. Has single-strand DNA-dependent ATPase and DNA helicase activities. Prefers ATP and dATP as substrates (PubMed:12181327). During S phase, may facilitate cellular recovery from replication stress (PubMed:22194613). {ECO:0000269|PubMed:25617833, ECO:0000269|PubMed:26774285}.

Molecular Weight:

123.3 kDa

UniProt:

Q8NG08

Application Details

Δnn	lication	Notas.
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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