

Datasheet for ABIN7551321

RecQ Protein-Like (DNA Helicase Q1-Like) (RECQL) (AA 1-649) protein (His tag)



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Overview

Quantity:	1 mg
Target:	RecQ Protein-Like (DNA Helicase Q1-Like) (RECQL)
Protein Characteristics:	AA 1-649
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	His tag

Product Details

Purpose:	Custom-made recombinant RECQL Protein expressed in mammalian cells.
Sequence:	<p>MASVSALTEE LDSITSELHA VEIQIQLTE RQQLIQKKK VLTKKIQCL ESDDAGASNE</p> <p>YDSSPAAWNK EDPWVGKVK DILQNVFLE KFRPLQLETI NVTMAGKEVF LVMPGTTGGKS</p> <p>LCYQLPALCS DGFTLVICPL ISLMEDQLMV LKQLGISATM LNASSSKEHV KVVHAEMVVK</p> <p>NSELKLIYVT PEKIAKSKMF MSRLEKAYEA RRFTRIAVDE VHCCSQWGHD FRPDYKALGI</p> <p>LKRQFPNASL IGLTATATNH VLTDQKILC IEKCTFTAS FNRPNLYYEV RQKPSNTEDF</p> <p>IEDIVKLING RYKGQSGIY CFSQKDSEQV TVSLQNLGIH AGAYHANLEP EDKTTVHRKW</p> <p>SANEIQVVVA TVAFGMGIDK PDVRFVIHHS MSKSMENYYQ ESGRAGRDDM KADCILYYGF</p> <p>GDIFRISSMV VMENVGQKL YEMVSYCQNI SKCRRVLMAQ HFDEVWNSEA CNKMCDNCKK</p> <p>DSAFERKNIT EYCRDLIKL KQAEELNEKL TPLKLIDSWM GKGAALKRVA GVVAPTLPRE</p> <p>DLEKIIAHFL IQQYLKEDYS FTAYATISYL KIGPKANLLN NEAHAIMQV TKSTQNSFRA</p> <p>ESSQTCHSEQ GDKKMEEKNS GNFQKKAANM LQQSGSKNTG AKKRKIDDA Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a</p>

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: RecQ Protein-Like (DNA Helicase Q1-Like) (RECQL)

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

Background: ATP-dependent DNA helicase Q1 (EC 5.6.2.4) (DNA 3'-5' helicase Q1) (DNA helicase, RecQ-like type 1) (RecQ1) (DNA-dependent ATPase Q1) (RecQ protein-like 1), FUNCTION: DNA helicase that plays a role in DNA damage repair and genome stability (PubMed:7961977, PubMed:7527136, PubMed:8056767, PubMed:15886194, PubMed:35025765). Exhibits a magnesium- and ATP-dependent DNA-helicase activity that unwinds single- and double-stranded DNA in a 3'-5' direction (PubMed:7527136, PubMed:8056767, PubMed:35025765, PubMed:19151156). Full-length protein unwinds forked DNA substrates, resolves Holliday junctions, and has DNA strand annealing activity (PubMed:19151156, PubMed:25831490). Plays a role in restoring regressed replication forks (PubMed:35025765). Required to restart

Target Details

stalled replication forks induced by abortive topoisomerase 1 and 2 lesions (PubMed:35025765). May play a role in the repair of DNA that is damaged by ultraviolet light or other mutagens (PubMed:7961977, PubMed:15886194). {ECO:0000269|PubMed:15886194, ECO:0000269|PubMed:19151156, ECO:0000269|PubMed:25831490, ECO:0000269|PubMed:35025765, ECO:0000269|PubMed:7527136, ECO:0000269|PubMed:7961977, ECO:0000269|PubMed:8056767}.

Molecular Weight: 73.5 kDa

UniProt: [P46063](#)

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