

DDX19A Protein, Human (His-SUMO)

Cat. No.:	HY-P71651
Synonyms:	ATP dependent RNA helicase DDX19A; ATP-dependent RNA helicase DDX19A; DDX19 like protein; DEAD box protein 19A
Species:	Human
Source:	E. coli
Accession:	Q9NUU7 (1M-478N)
Gene ID:	55308
Molecular Weight:	Approximately 70.0 kDa

PROPERTIES

AA Sequence

MATDSWALAV	DEQEAAVKSM	TNLQIKEEKV	KADTNGIIKT
STTAEKTDEE	EKEDRAAQSL	LNKLIRSNLV	DNTNQVEVLQ
RDPNSPLYSV	KSFEE LR LKP	QLLQGVYAMG	FNRPSKIQEN
ALPMM LAEPP	QNLIAQSQSG	TGKTAAFVLA	MLSRVEPSDR
YPQC LCLSPT	YELALQTGKV	IEQMGKFYPE	LKLAYAVRGN
KLERGQKISE	QIVIGTPGTV	LDWCSK LKFI	DPKKIKV FVL
DEADVMIATQ	GHQDQSIRIQ	RMLPRNCQML	LFSATFEDSV
WKFAQKVVPD	PNVIK LKREE	ETLDTIKQYY	VLCSSRDEKF
QALCNLYGAI	TIAQAMIFCH	TRKTASW LAA	ELSKEGHQVA
LLSGEMMVEQ	RAAVIERFRE	GKEKVLVTTN	VCARGIDVEQ
VSVVINFDLP	VDKDGNPDNE	TYLHRIGRTG	RFGKRGLAVN
MVDSKHS MNI	LNRIQE HFNK	KIERLDTDDL	DEIEKIAN

Biological Activity The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.

Appearance Lyophilized powder.

Formulation Lyophilized after extensive dialysis against solution in Tris-based buffer, 50% glycerol.

Endotoxin Level <1 EU/μg, determined by LAL method.

Reconstitution It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH₂O.

Storage & Stability Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.

Shipping Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background

BLM, an ATP-dependent DNA helicase, exhibits the capability to unwind both single- and double-stranded DNA in a 3'-5' direction. It actively participates in DNA replication and repair processes, playing a vital role in 5'-end resection of DNA during double-strand break repair by unwinding DNA and recruiting DNA2, which facilitates the cleavage of 5'-ssDNA. Additionally, BLM negatively regulates sister chromatid exchange and is involved in stimulating DNA 4-way junction branch migration as well as DNA Holliday junction dissolution. This multifaceted protein binds to single-stranded DNA, forked duplex DNA, and DNA Holliday junctions. Notably, BLM is recruited to DNA replication forks by the KHDC3-OOEP scaffold, where it is retained through TRIM25 ubiquitination, thus promoting the restart of stalled replication forks.

Caution: Product has not been fully validated for medical applications. For research use only.

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