

BLM Protein, Mouse, Recombinant (His & Myc)

General Information

Synonyms:	Bloom syndrome protein homolog (mBLM);RecQ helicase homolog;DNA 3'-5' helicase BLM; Blm;RecQ-like DNA helicase BLM
Protein Construction:	684-859 aa
Species:	Mouse
Expression Host:	E. coli
Accession:	O88700
Molecular Weight:	24.7 kDa (predicted)
AA Sequence:	INAALLGEDCFILMPTGGGKSLCYQLPACVSPGVTVISPLRSLIVDQVQKLTSDIPATYLTGDKTDSEAANIYL QLSKKDPIIKLLYVTPEKVCASNRLISTLENLYERKLLARFVIDEAHCVSQWGHDFRQDYKRMNMLRQKFPSVP VMALTATANPRVQKDILTQLKILRPQ

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 90% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Tris-based buffer, 50% glycerol

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months.

Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

ATP-dependent DNA helicase that unwinds single- and double-stranded DNA in a 3'-5' direction. Participates in DNA replication and repair. Involved in 5'-end resection of DNA during double-strand break (DSB) repair: unwinds DNA and recruits DNA2 which mediates the cleavage of 5'-ssDNA. Negatively regulates sister chromatid exchange (SCE). Stimulates DNA 4-way junction branch migration and DNA Holliday junction dissolution. Binds single-

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stranded DNA (ssDNA), forked duplex DNA and DNA Holliday junction. Recruited by the KHDC3-OOEP scaffold to DNA replication forks where it is retained by TRIM25 ubiquitination, it thereby promotes the restart of stalled replication forks.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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