

BLM Protein, Human, Recombinant (His)

General Information

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| Synonyms: | DNA 3'-5' helicase BLM;RecQ-like DNA helicase BLM;RecQ protein-like 3;Bloom syndrome protein;DNA helicase, RecQ-like type 2 (RecQ2);RECQL3;RECQ2;BLM |
| Protein Construction: | 877-1024 aa |
| Species: | Human |
| Expression Host: | E. coli |
| Accession: | P54132 |
| Molecular Weight: | 23.0 kDa (predicted) |
| AA Sequence: | DCLEWIRKHHPHYDSGIYCLSRRECDTMADTLQRDGLAALAYHAGLSDSARDEVQKWINQDGCQVICATIA FGMGIDKPDVRFVIHASLPKSVEGYQESGRAGR DGEISHCLLFYTYHDVTRLKRLIMMEKDGNNHHTRETHFN NLY |

QC Testing

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| 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/ μ g of the protein as determined by the LAL method. |
| Formulation: | If the delivery form is liquid, the default storage buffer is Tris/PBS-based buffer, 5%-50% glycerol.If the delivery form is lyophilized powder, the buffer before lyophilization is Tris/PBS-based buffer, 6% Trehalose, pH 8.0. |

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100 μ g/mL. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

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

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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-stranded DNA (ssDNA), forked duplex DNA and DNA Holliday junction. Recruited by the KHDC3L-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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