

Recombinant Human BLM Protein

Cat. No. BLM-34H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human BLM protein without tag was expressed in E. coli.
Species	Human
Source	E.coli
Description	The Bloom syndrome is an autosomal recessive disorder characterized by growth deficiency, microcephaly and immunodeficiency among others. It is caused by homozygous or compound heterozygous mutation in the gene encoding DNA helicase RecQ protein on chromosome 15q26. This Bloom-associated helicase unwinds a variety of DNA substrates including Holliday junction, and is involved in several pathways contributing to the maintenance of genome stability. Identification of pathogenic Bloom variants is required for heterozygote testing in at-risk families.
Form	Lyophilized
Molecular Mass	75 kDa
AA Sequence	MSRNLKHERFQSLSPHTKEMMKIFHKKFGLHNFRTNQLEAINAALLGEDCFILMPT GGGKSLCYQLPACVSPGVTTVISPLRSLIVDQVQKLTSLDIPATYLTGDKTDSEATNIY LQLSKKDPIIKLLYVTPEKICASNRLISTLENLYERKLLARFVIDEAHCVSQWGHDFRQ DYKRMNMLRQKFPSVPVMALTATANPRVQKDILTQLKILRPQVFSMSFNRHNLKYYV LPKKPKKVAFDCCLEWIRKHHYPYDSGIIYCLSRRECDTMADTLQRDGLAALAYHAGLS DSARDEVQQKWINQDGCQVICATIAFGMGIDKPDVRFVIHASLPKSVEGYQESGRA GRDGEISHCLLFYTYHDVTRLKRLIMMEKDGNHHTRETHFNNLYSMVHYCENITECR

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RIQLLAYFGENGFPDFCKKHPDVSCDNCKTKDYKTRDVTDDVKSIVRFVQEHSS
 SQGMRNIKHVGPSGRFTMNMLVDIFLGSKSAKIQSGIFGKGSAYSRHNALFKKLIL
 DKILDEDLYINANDQAIAYVMLGNKAQTVLNGNLKVDFMETENSSSVKKQKALVAKV
 SQREEMVKKCLGELTEVCKSLGKVFGVHYFNIFNTVTLKKLAESLSSDPEVLLQIDGV
 TEDKLEKYGAEVISVLQKYSEWTSPAEDSSPG

Purity > 90% by SDS-PAGE

Storage Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

Storage Buffer Lyophilized from 50mM Tris, 500mM NaCl, pH 7.5, 5% Trehalose, 5% Mannitol

GENE INFORMATION

Gene Name BLM BLM RecQ like helicase [Homo sapiens (human)]

Official Symbol BLM

Synonyms BLM; BLM RecQ like helicase; BS; RECQ2; RECQL2; RECQL3; MGRISCE1; recQ-like DNA helicase BLM; Bloom syndrome RecQ like helicase; Bloom syndrome, RecQ helicase-like; DNA helicase, RecQ-like type 2; bloom syndrome protein; recQ protein-like 3; EC 3.6.4.12

Gene ID 641

mRNA Refseq NM_000057

Protein Refseq NP_000048

MIM 604610

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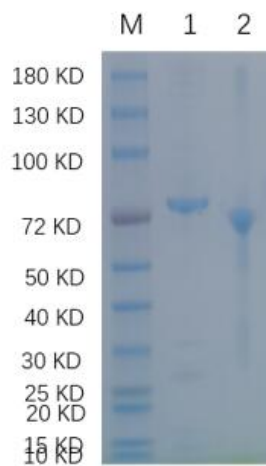
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UniProt ID

P54132

Reducing 12% SDS-
PAGE analysis
profile of purified
BLM



1. BLM

2. BSA

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