

BLMH active protein

BLMH, 1-455aa, Human, His tag, E Coli (Bioactivity Validated)

CATALOG # AAA48677	HOST E Coli	APPLICATIONS SDS-Page
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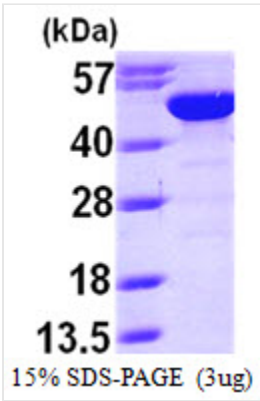
PRODUCT SYNONYMS

BLMH; 1-455aa; Human; His tag; E Coli (Bioactivity Validated); Bleomycin hydrolase; BH; BMH; BLMH active protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	> 90% by SDS-PAGE
Form/Format	Liquid. In 20 mM Tris-HCl Buffer (pH 8.0) containing 10% glycerol
Concentration	1 mg/ml (determined by Bradford assay) (varies by lot)
Sequence	MGSSHHHHHH SSSLVPRGSH MSSSGLNSEK VAALIQKLNS DPQFVLAQNV GTTHDLLDIC LKRATVQRAQ HVFQHAVPQE GKPITNQKSS GRCWIFSCLN VMRLPFMKKL NIEEFESQS YLFFWDKVER CYFFLSAFVD TAQRKEPEDG RLVQFLLMNP ANDGGQWDM L VNIVEKYGVI PKKCFPESYT TEATRRMNDI LNHKMREFCI RLRNLVHSGA TKGEISATQD VMEEIFRVV CICLGNPPET FTWEYRDKDK NYQKIGPITP LEFYREHVKP LFNMEDKICL VNDPRPQHKY NKLYTVEYLS NMVGGRKTLY NNQPIDFLKK MVAASIKDGE AVWFGCDVGK HFNSKLGLSD MNLYDHELVF GVSLKNMNKA ERLTFGESLM THAMTFTAVS EKDDQDGAFT KWRVENSWGE DHGHKGylcm TDEWFSEYVY EVVDRKHVP EEVLAVLEQE PIILPAWDPM GALAE
Sequence Length	455
Applicable Applications for BLMH active protein	SDS-PAGE
Antigen Species	Human
Tag Information	His-tag
Biological Activity	Specific activity: > 2,500 pmole/min/ug, and is defined as the amount of enzyme that hydrolyze 1pmole of Met-AMC to Methionine and AMC per minute at pH7.5 at 37C.
Preparation and Storage	Can be stored at 4 degree C short term (1-2 weeks). For long term storage, aliquot and store at -20 degree C or -70 degree C. Avoid repeated freezing and thawing cycles.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for BLMH active protein	BLMH is a member of the papain superfamily of the cysteine protease and the peptidase C1 family. It is a cytoplasmic cysteinepeptidase commonly found as a homohexamer. The normal physiological role of BLMH is unknown, but it protects normal and malignant cells from the glycopeptide antitumor drug BLM. It catalyzes the inactivation of the antitumor drug BLM (a glycopeptide) by hydrolyzing the carboxyamide bond of its B-aminoalaninamide moiety and also shows general aminopeptidase activity. Recombinant human BLMH protein, fused to His-tag at N-terminus, was expressed in E Coli and purified by using conventional chromatography.
Product Categories/Family for BLMH active protein	Proteases & Inhibitors
References	Lazo JS.,et al. (2007) Neuroscience. 146 (3):890-900; Abernethy J.,et al (1991) Proc Natl Acad Sci u S A. 96 (8):4680-5.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4557367
NCBI GeneID	642
NCBI Accession #	NP_000377
NCBI GenBank Nucleotide #	NM_000386.3
UniProt Accession #	Q13867 ; Q53F86 ; Q9UER9 ; B2R796
Molecular Weight	54.7 kDa (475aa), confirmed by MALDI-TOF
NCBI Official Full Name	bleomycin hydrolase
NCBI Official Synonym Full Names	bleomycin hydrolase
NCBI Official Symbol	BLMH
NCBI Official Synonym Symbols	BH; BMH
NCBI Protein Information	bleomycin hydrolase
UniProt Protein Name	Bleomycin hydrolase
UniProt Gene Name	BLMH
UniProt Synonym Gene Names	BH; BLM hydrolase; BMH

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

