

Product information

BLMH, 1-455aa

Human, His-tagged, Recombinant, *E.coli*

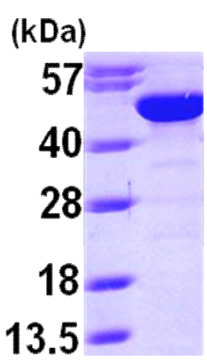
Cat. No. IBATGP0764

Full name: Bleomycin hydrolase

NCBI Accession No.: NP_000377

Synonyms: BH, BMH

Description: 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 carboxamide 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.

<p>Form: Liquid. In 20 mM Tris-HCl Buffer (pH 8.0) containing 10% Glycerol</p> <p>Molecular Weight: 54.7 kDa(475aa), confirmed by MALDI-TOF</p> <p>Purity: > 90% by SDS - PAGE</p> <p>Concentration: 1 mg/ml (determined by Bradford assay)</p> <p>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 37°C.</p>	 <p>15% SDS-PAGE (3ug)</p>
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Sequences of amino acids:

MGSSHHHHHH SSSLVPRGSH MSSSGLNSEK VAALIQKLNS DPQFVLAQNV GTTHDLLDLC LKRATVQRAQ HVFQHAVPQE GKPITNQKSS
 GRCWIFSLCN VMRLPFMKKL NIEEFESQS YLFFWDKVER CYFFLSAFVD TAQRKEPEDG RLVQFLMNP ANDGGQWDMV NVIVEKYGVI
 PKKCFPESYT TEATRRMNDI LNHKMRFCI RLRNLVHSGA TKGEISATQD VMEEIFRVV CICLGNPPET FTWEYRDKDK NYQKIGPITP
 LEFYREHVKP LFNMEDKICL VNDPRPQHKY NKLYTVEYLS NMVGGRTKLY NNQPIDFLKK MVAASIKDGE AVWFGCDVKG HFNSKLGKLS
 MNLYDHELVEF GVSLKNMKA ERLTFGESLM THAMTFTAVS EKDDQDGAFT KWRVENSNGE DHGHKGYLCM TDEWFSEYVY EVVDRKHVP
 EEVLAVLEQE PIIIPAWDPM GALAE

General 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.

Storage: Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C.

For research use only. This product is not intended or approved for human, diagnostics or veterinary use.

Product information

Avoid repeated freezing and thawing cycles.

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Manufactured for:

Immuno-Biological Laboratories, Inc. (IBL-America)

8201 Central Ave. NE, Suite P, Minneapolis, Minnesota 55432, USA

Phone: (888) 523-1246

Fax.: (763) 780-2988

Email: info@ibl-america.com

Web: www.ibl-america.com