BioVision

Human Recombinant BLMH

CATALOG NO: 6392-100   100 µg

ALTERNATE NAMES: Bleomycin hydrolase, BH, BMH.

SOURCE: E.Coli

PURITY: > 90% by SDS - PAGE

MOL. WEIGHT: 54.7 kDa (475 aa, 1-455 aa + NT His Tag)

FORMULATION: 1 mg/ml solution in 20 mM Tris-HCl buffer (pH 8.0)
                            containing 10% glycerol.

STORAGE CONDITIONS:
Can be stored at 4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

DESCRIPTION:
BLMH is affiliate to the papain superfamily of the cysteine protease and the peptidase C1 family. BLMH is a cytoplasmic cysteine peptidase usually found as a homohexamer. The standard physiological role of BLMH has not been determined, but it shields normal and malignant cells from the glycopeptide antitumor drug BLM. BLMH catalyzes the inactivation of the antitumor drug BLM (a glycopeptide) by hydrolyzing the carboxyamide bond of its B-aminoalaninamide moiety and in addition demonstrates general aminopeptidase activity.

AMINO ACID SEQUENCE:

MGSSHHHHHH   SSGLVPRGSH   MSSSGLNSEK   VAALIQKLNS   DPQFVLAQNV
GTTHDLLDIC LKRATVQRAQ HVFQHAVPQE GKPITNQKSS GRCWIFSCLN VMRLPFMKKL
NIEEFEFSQS   YLFFWDKVER   CYFFLSAFVD   TAQRKEPEDG   RLVQFLLMNP
ANDGGQWDML VNIVEKYGVI PKKCFPESYT TEATRRMNDI LNHKMREFCI RLRNLVHSGA
TKGEISATQD VMMEEIFRVV CICLGNPPET FTWEYRDKDK NYQKIGPITP LEFYREHVKP
LFNMEDKICL VNDPRPQHKY NKLYTVEYLS NMVGGRKTLY NNQPIDFLKK MVAASIKDGE
AVWFGCDVGK   HFNSKLGLSD   MNLYDHELVF   GVSLKNMNKA   ERLTFGESLM
THAMTFTAVS   EKDDQDGAFT   KWRVENSWGE   DHGHKGYLCM   TDEWFSEYVY
EVVVDRKHVP EEVLAVLEQE PIILPAWDPM GALAE

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.
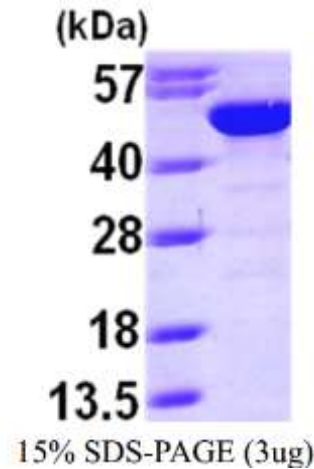
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RELATED PRODUCTS:

- Cystatin A Antibody (Clone WR 23/2/3/3) **(Cat. No. 3486-100)**
- Leupeptin, hemisulfate (Synthetic) **(Cat. No. 1648-25, -50, -100)**
- Vaspin, human recombinant **(Cat. No. 4915-25, -1000)**
- E-64 **(Cat. No. 1739-5, -25)**

FOR RESEARCH USE ONLY! Not to be used in humans.