NKMAXBio we support you, we believe in your research Recombinant mouse Bleomycin Hydrolase/BLMH protein Catalog Number: ATGP3880

PRODUCT INFORMATION

Expression system E.coli

Domain 1-455aa

UniProt No. Q8R016

NCBI Accession No. NP_848760

Alternative Names Bleomycin hydrolase, BH, BLM hydrolase, BMH

PRODUCT SPECIFICATION

Molecular Weight 54.9 kDa (478aa) confirmed by MALDI-TOF

Concentration

0.25mg/ml (determined by absorbance at 280nm)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 0.1M NaCl, 30% glycerol

Purity

> 90% by SDS-PAGE

Biological Activity

Specific activity is > 1,500 pmol/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.

Tag

His-Tag

Application SDS-PAGE, Enzyme Activity

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

BLMH, also known as bleomycin hydrolase, 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 mouse BLMH protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.

Amino acid Sequence

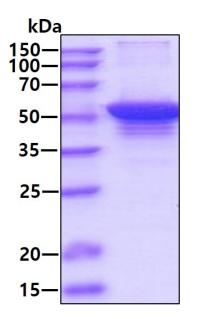
<MGSSHHHHHH SSGLVPRGSH MGS>MNNAGLN SEKVSALIQK LNSDPQFVLA QNVGTTHDLL DICLRRATVQ GAQHVFQHVV PQEGKPVTNQ KSSGRCWIFS CLNVMRLPFM KKFNIEEFEF SQSYLFFWDK VERCYFFLNA FVDTAQKKEP EDGRLVQYLL MNPTNDGGQW DMLVNIVEKY GVVPKKCFPE SHTTEATRRM NDILNHKMRE FCIRLRNLVH SGATKGEISS TQDAMMEEIF RVVCICLGNP PETFTWEYRD KDKNYHKIGP ITPLQFYKEH VKPLFNMEDK ICFVNDPRPQ HKYNKLYTVD YLSNMVGGRK TLYNNQPIDF LKKMVAASIK DGEAVWFGCD VGKHFNGKLG LSDMNVYDHE LVFGVSLKNM NKAERLAFGE SLMTHAMTFT AVSEKDNQEG TFVKWRVENS WGEDHGHKGY LCMTDEWFSE YVYEVVVDKK HVPEEVLAVL EQEPIVLPAW DPMGALAE

General References

Montoya SE., et al. (2007) Neuroscience. 146(3):890-900. Suszynska-Zajczyk J., et al. (2014) Mol Genet Metab.112(4):339-46.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.