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**Product Data Sheet**


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Product Name: BLMH Mouse

Cat. No.: GP26130

Batch No.: 1

**Product Data**

Purity &gt;98% Source Escherichia Coli.

Physical Appearance solid Shipping Condition withIcePacks

Synonyms BMH, BH, BLM hydrolase, Bleomycin Hydrolase.

Amino Acid Sequence  
 MGSSHHHHHH SGLVPRGSH MGSMNNAAGLN SEKVSALIQK LNSDPQFVLA  
 QNVGTTHDLLDICLRRATVQ GAQHVFQHVV PQEGKPVNTQ KSSGRCWIFS  
 CLNVMRLPFM KKFNIEEFESQSYLFFWDK VERCYFFLNA FVDTAQKKEP  
 EDGRLVQYLL MNPTNDGGQW DMLVNIVEKYGVVPPKCFPE SHTTEATTRM  
 NDILNHKMRE FCIRLRNLVH SGATKGEISS TQDAMMEEIFRVVICLGNP  
 PETFTWEYRD KDKNYHKIGP ITPLQFYKEH VKPLFNMEDK  
 ICFVNDPRPQHKNKLYTVD YLSNMVGGGRK TLYNNQPIDF LKKMVAASIK  
 DGEAVWFGCD VGKHFNGKLGLSDMNVDHE LVFGVSLKNM NKAERLAFGE  
 SLMTHAMTFT AVSEKDNQEG TFVKWRVENSWGEDHGHKGY LCMTDEWFSE  
 VVYEVVVDKK HVPEEVLAVL EQEPIVLPWA DPMGALAE

Formulation The BLMH solution (0.25 mg/ml) contains 1mM DTT, 30% Glycerol, 20mM Tris-HCl(pH8.0) and 0.1M NaCl.

**Introduction**

BLMH is affiliate to the papain superfamily of the cysteine protease and the peptidase C1 family. BLMH is a cytoplasmic cysteinepeptidase usually found as a homohexamer. BLMH 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 carboxamide bond of its B-aminoalaninamide moiety and in addition demonstrates general aminopeptidase activity.

**Biological Activity**

Specific activity is > 1,500 pmole/min/ug. Measured by hydrolysis of 1pmole of Met-AMC to Methionine and AMC per minute at pH7.5 at 37C?.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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Address: 10292 Central Ave. #205, Montclair, CA, USA

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### Stability

Store at 46yC if entire vial will be used within 2-4 weeks. Store, frozen at -206yC for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

BLMH Mouse Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 478 amino acids (1-455 aa) and having a molecular mass of 54.9 kDa. BLMH is fused to a 23 amino acid His tag at N-terminus and purified by proprietary chromatographic techniques.

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