
Product Data Sheet

Product Name: BLMH Human

Cat. No.: GP21443

Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	BMH; BH; BLM hydrolase.		
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MSSSGLNSEK VAALIQKLNS DPQFVLAQNV GTTHDLLDIC LKRATVQRAQ HVFQHAVPQE GKPITNQKSS GRCWIFSCLN VMRLPFMKKL NIEEFESQS YLFFWDKVER CYFFLSAFVD TAQRKEPEDG RLVQFLLMNP ANDGGQWDML VNIVEKYGVI PPKCFPESYT TEATRRMNDI LNHKMREFCI RLRNLVHSGA TKGEISATQD VMMEEIFRVV CICLGNPPET FTWEYRDKDK NYQKIGPITP LEFYREHVKP LFNMEDKICL VNDPRPQHXY NKLYTVEYLS NMVGGRKTLY NNQPIDFLKK MVAASIKDGE AVWFGCDVVK HFNSKLGSLD MNLYDHELVE GVSLKNMNKA ERLTFGESLM THAMTFTAVS EKDDQDGAFT KWRVENSWGE DHGHKGYLCM TDEWFSEYVY EVVDRKHVP EEVLAVLEQE PIILPAWDPM GALAE		
Formulation	The BLMH protein solution (1mg/1ml) is formulated in 20mM Tris-HCl Buffer (pH 8.0) and 10% Glycerol.		

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. 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 carboxamide bond of its B-aminoalaninamide moiety and in addition demonstrates general aminopeptidase activity.

Biological Activity

Specific activity: > 1,000 pmole/min/ug. Measured by the hydrolysis of Met-AMC at pH

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

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7.5, at 37C.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. Please avoid freeze thaw cycles.

Background

BLMH produced in E.Coli is a single, non-glycosylated polypeptide chain containing 475 amino acids (1-455a.a.) and having a molecular mass of 54.7kDa. BLMH is fused to a 20 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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