Recombinant Human Bleomycin Hydrolase, His-tagged

Cat. No. BLMH-802H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human BLMH protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography. MW = 54.7 kDa(475aa), confirmed by MALDI-TOF.
Species	Human
Source	E.coli
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 carboxyamide bond of its B-aminoalaninamide moiety and also shows general aminopeptidase activity.
Sequences Of Amino Acids	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

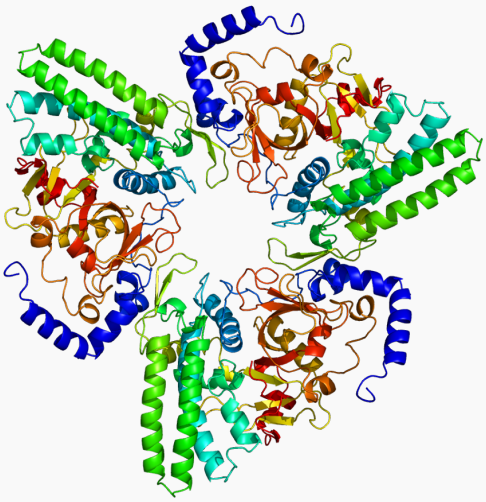
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	EKDDQDGAFT KWRVENSWGE DHGHKGYLCM TDEWFSEYVY EVVVDRKHVP EEVLAVLEQE PIILPAWDPM GALAE
Purity	> 90% by SDS – PAGE.
Form	Liquid. In 20 mM Tris-HCl Buffer (pH 8.0) containing 10% Glycerol.
Concentration	1 mg/ml (determined by Bradford assay).
Storage	Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

GENE INFORMATION

Gene Name	BLMH bleomycin hydrolase [Homo sapiens]
Synonyms	BLMH; bleomycin hydrolase; BH; BMH; BLM hydrolase; EC 3.4.22.40
Gene ID	642
mRNA Refseq	NM_000386
Protein Refseq	NP_000377
MIM	602403
UniProt ID	Q13867
Chromosome Location	17q11.2

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Function	aminopeptidase activity; carboxypeptidase activity; cysteine-type endopeptidase activity; cysteine-type peptidase activity; peptidase activity; protein binding
	

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