

Recombinant Human BLMH, His-tagged

Cat. No. BLMH-26114TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human BLMH with an N terminal His tag. Predicted mwt: 54.7 kDa;
Species	Human
Source	E.coli
ProteinLength	475 amino acids
Description	Bleomycin hydrolase (BMH) is a cytoplasmic cysteine peptidase that is highly conserved through evolution; however, the only known activity of the enzyme is metabolic inactivation of the glycopeptide bleomycin (BLM), an essential component of combination chemotherapy regimens for cancer. The protein contains the signature active site residues of the cysteine protease papain superfamily.
Conjugation	HIS
Molecular Weight	54.700kDa inclusive of tags
Form	Liquid
Purity	>90% by SDS-PAGE
Storage buffer	Preservative: None Constituents: 10% Glycerol, 20mM Tris HCl, pH 8.0

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Storage

Store at +4°C short term (1-2 weeks). Aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.

Sequences of amino acids

MGSSHHHHHHSSGLVPRGSHMSSSGLNSEKVAALIQKLNSDPQFVLAQNVGTTHD
LLDICLKRA TVQRAQHVFQHAVPQEGKPITNQKSS GRCWIFSC LNVMLRPFMKKLNI
EEFEFSQSYLFFWDKVERCYFFLSAFVDTAQRKEPEDGRLVQFLLMNPANDGGQW
DMLVNIVEKYGVIPKKCFPESYTTEATRRMNDILNHKMREFCIRLRNLVHSGATKGEI
SATQD VMMEEIFRVV CICLGNPPET FTWEYRDKDK NYQKIGPITP LEFYREHVKP
LFNMEDKICL VNDPRPQHKY NKLYTVEYLS NMVGGRKTLY NNQPIDFLKK MVA
SIKDGE AVWFGCDVGK HFNSKLGLSD MNLYDHELVF GVSLKNMNKA ERLTFGES
LM THAMTFTAVS EKDDQDGAFT KWRVENSWGE DHGHKGYLCM TDEWFSEYVY
EVVVD RKHVP EEVLAVLEQE PIILPAWDPM GALAE

GENE INFORMATION
Gene Name

BLMH bleomycin hydrolase [Homo sapiens]

Official Symbol

BLMH

Synonyms

BLMH; bleomycin hydrolase; BH;

Gene ID

642

mRNA Refseq

NM_000386

Protein Refseq

NP_000377

MIM

602403

Uniprot ID

Q13867

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Chromosome Location	17q11.2
Pathway	Adaptive Immune System, organism-specific biosystem; Antigen processing: Ubiquitination & Proteasome degradation, organism-specific biosystem; Class I MHC mediated antigen processing & presentation, organism-specific biosystem;
Function	aminopeptidase activity; carboxypeptidase activity; cysteine-type endopeptidase activity; cysteine-type peptidase activity; peptidase activity;

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