

Product datasheet for **AR09703PU-L**

Bleomycin hydrolase (1-455, His-tag) Human Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Bleomycin hydrolase (1-455, His-tag) human recombinant protein, 0.5 mg
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	<u>MGSSHHHHHH SSGLVPRGSH</u> MSSSGLNSEK VAALIQKLSN DPQFVLAQNV GTTHDLLDIC LKRATVQRAQ HVFQHAVPQE GKPITNQKSS GRCWIFSCLN VMRLPFMKKL NIEEFESQS YLFFWDKVER CYFFLSAFVD TAQRKEPEDG RLVQFLLMNP ANDGGQWDML VNIVEKYGVI PPKKCFESYT TEATRRMNDI LNHKMREFCI RLRNLVHSGA TKGEISATQD VMMEEIFRVV CICLGNPPET FTWEYRDKDK NYQKIGPITP LEFYREHVKP LFNMEDKICL VNDPRPQHKY NKLYTVEYLS NMVGGRTLY NNQPIDFLKK MVAASIKDGE AVWFGCDVGK HFNSKLGLSD MNLYDHELVE GVSLKNMNKA ERLTFGESLM THAMTFTAVS EKDDQDGAFT KWRVENSWGE DHGHKGYLCM TDEWFSEYVY EVVDRKHVP EEVLAVLEQE PIILPAWDPM GALAE
Tag:	His-tag
Predicted MW:	54.7 kDa
Concentration:	lot specific
Purity:	>90%
Buffer:	Presentation State: Purified State: Liquid purified protein Buffer System: 20 mM Tris-HCl Buffer (pH 8.0) containing 10% Glycerol
Bioactivity:	Specific: > 1,000 pmole/min/ug. Measured by the hydrolysis of Met-AMC at pH 7.5, at 37°C.
Preparation:	Liquid purified protein



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Applications:	Protocol: Activity assay 1. Prepare 100 ul of recombinant BLMH protein with various concentrations (0.06 ug, 0.03 ug) in assay buffer and equilibrate to 37°C for 30 minutes. (Assay buffer: 50 mM Tris-HCl, 5 mM EDTA, 10 mM DTT, pH 7.5) 2. Add 50 ul of 2mM Met-AMC. 3. Read at excitation wavelengths 355nm and emission 460nm for 5 minutes. - Met-AMC (Enzo, Cat.No, BML-P236-0025) - 96 Well Polystyrene Microplate, black (greiner bio-one, Cat.No, 655077) - Fluorescent plate reader (PerkinElmer, VICTOR X3)
Protein Description:	Recombinant human BLMH protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography.
Storage:	Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C or -70°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
RefSeq:	NP_000377
Locus ID:	642
UniProt ID:	Q13867
Cytogenetics:	17q11.2
Synonyms:	BH; BMH
Summary:	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. [provided by RefSeq, Jul 2008]
Protein Families:	Druggable Genome, Protease

Product images: