BLMH/Bleomycin Protein, Mouse (P. pastoris, His)

Cat. No.:	HY-P700626
Synonyms:	Bleomycin hydrolase; BH; BLM hydrolase; BMH
Species:	Mouse
Source:	P. pastoris
Accession:	Q8R016 (M1-E455)
Gene ID:	104184
Molecular Weight:	53.8 kDa

PROPERTIES

AA Sequence	MNNAGLNSEK VSALIQKLNS DPQFVLAQNV GTTHDLLDIC LRRATVQGAQ HVFQHVVPQE GKPVTNQKSS GRCWIFSCLN VMRLPFMKKF NIEEFEFSQS YLFFWDKVER CYFFLNAFVD TAQKKEPEDG RLVQYLLMNP TNDGGQWDML VNIVEKYGVV PKKCFPESHT TEATRRMNDI LNHKMREFCI RLRNLVHSGA TKGEISSTQD AMMEEIFRVV CICLGNPPET FTWEYRDKDK NYHKIGPITP LQFYKEHVKP LFNMEDKICF VNDPRPQHKY NKLYTVDYLS NMVGGRKTLY NNQPIDFLKK MVAASIKDGE AVWFGCDVGK HFNGKLGLSD MNVYDHELVF GVSLKNMNKA ERLAFGESLM THAMTFTAVS EKDNQEGTFV KWRVENSWGE DHGHKGYLCM TDEWFSEYVY EVVVDKKHVP EEVLAVLEQE PIVLPAWDPM GALAE
Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm filtered solution of 20 mM Tris-HCl, 0.5 M NaCl, 6% Trehalose, pH 8.0.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	BLM hydrolase, also known as Bleomycin hydrolase, plays a crucial role in cellular defense mechanisms by catalyzing the inactivation of the antitumor drug Bleomycin (BLM), a glycopeptide. This enzymatic activity involves the hydrolysis of the carboxamide bond within the B-aminoalaninamide moiety of BLM, leading to its inactivation. This process serves to protect both normal and malignant cells from the toxic effects of BLM. While the precise physiological function of BLM hydrolase remains unclear, its ability to neutralize the cytotoxic impact of BLM highlights its significance in cellular homeostasis and defense against potentially harmful agents.

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

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