Cathepsin Z/CTSZ Protein, Mouse (HEK293, His)

Cat. No.:	HY-P75448
Synonyms:	Cathepsin P; Cathepsin X/Z/P; Cathepsin Z; CTSX; CTSZ
Species:	Mouse
Source:	HEK293
Accession:	Q9WUU7 (A23-V306)
Gene ID:	64138
Molecular Weight:	Approximately 38 kDa

PROPERTIES

AA Sequence	A R A R L Y F R S G Q T C Y H P I R G D Q L A L L G R R T Y P R P H E Y L S P A D L P K N W D W R N V N G V N Y A S V T R N Q H I P Q Y C G S C W A H G S T S A M A D R I N I K R K G A W P S I L L S V Q N V I D C G N A G S C E G G N D L P V W E Y A H K H G I P D E T C N N Y Q A K D Q D C D K F N Q C G T C T E F K E C H T I Q N Y T L W R V G D Y G S L S G R E K M M A E I Y A N G P I S C G I M A T E M M S N Y T G G I Y A E H Q D Q A V I N H I I S V A G W G V S N D G I E Y W I V R N S W G E P W G E K G W M R I V T S T Y K G G T G D S Y N L A I E S A C T F G D P I V
Biological Activity	Measured by its ability to cleave the fluorogenic peptide substrate, MCA-Arg-Pro-Pro-Gly-Phe-Ser-Ala-Phe-Lys(DNP)-OH. The specific activity is 715.46 pmol/min/μg, as measured under the described conditions.
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.
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. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
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	Cathepsin Z/CTSZ protein demonstrates both carboxy-monopeptidase and carboxy-dipeptidase activities, highlighting its

versatility in enzymatic functions. The enzyme is proficient in generating kinin potentiating peptides, further emphasizing its role in the modulation of biological processes. The combination of carboxy-monopeptidase and carboxy-dipeptidase activities underscores the significance of Cathepsin Z in the hydrolysis of peptide bonds, suggesting its involvement in the processing and regulation of specific substrates. This multifaceted enzymatic profile suggests potential implications for Cathepsin Z in diverse cellular pathways and physiological responses mediated by peptide processing.

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