

Cathepsin A Protein, Mouse (HEK293, His)

Cat. No.:	HY-P74346
Synonyms:	Lysosomal protective protein; CTSA; Cathepsin A; PPCA; Ppgb
Species:	Mouse
Source:	HEK293
Accession:	P16675 (A24-Y474)
Gene ID:	19025
Molecular Weight:	Approximately 52.8 kDa

PROPERTIES

AA Sequence	<pre> A P D Q D E I D C L P G L A K Q P S F R Q Y S G Y L R A S D S K H F H Y W F V E S Q N D P K N S P V V L W L N G G P G C S S L D G L L T E H G P F L I Q P D G V T L E Y N P Y A W N L I A N V L Y I E S P A G V G F S Y S D D K M Y V T N D T E V A E N N Y E A L K D F F R L F P E Y K D N K L F L T G E S Y A G I Y I P T L A V L V M Q D P S M N L Q G L A V G N G L A S Y E Q N D N S L V Y F A Y Y H G L L G N R L W T S L Q T H C C A Q N K C N F Y D N K D P E C V N N L L E V S R I V G K S G L N I Y N L Y A P C A G G V P G R H R Y E D T L V V Q D F G N I F T R L P L K R R F P E A L M R S G D K V R L D P P C T N T T A P S N Y L N N P Y V R K A L H I P E S L P R W D M C N F L V N L Q Y R R L Y Q S M N S Q Y L K L L S S Q K Y Q I L L Y N G D V D M A C N F M G D E W F V D S L N Q K M E V Q R R P W L V D Y G E S G E Q V A G F V K E C S H I T F L T I K G A G H M V P T D K P R A A F T M F S R F L N K E P Y </pre>
Biological Activity	Measured by its ability to cleave the fluorogenic peptide substrate, Mca-RPPGFSAFK(Dnp)-OH. Read at excitation and emission wavelengths of 320 nm and 405 nm (top read). The specific activity is 82.47 pmol/min/μg, as measured under the described conditions.
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.2 μm filtered solution of 25 mM Tris, 0.3 M NaCl, pH 8.0.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH ₂ O. 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 A, a multifunctional protein, plays a crucial role in supporting the activity of both beta-galactosidase and neuraminidase. It forms associations with these enzymes, providing a protective function vital for their stability and overall activity. Beyond its protective role, Cathepsin A exhibits carboxypeptidase activity and has the capacity to deamidate tachykinins, showcasing its diverse enzymatic functions.

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

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