

Cathepsin H Protein, Mouse (HEK293, His)

Cat. No.:	HY-P7752
Synonyms:	rMuCathepsin H, His; Pro-cathepsin H; CTSH; ACC-4; ACC-5; aleurain; cathepsin B3; cathepsin BA; cathepsin H; CPSB;
Species:	Mouse
Source:	HEK293
Accession:	AAA82966.1 (A21-V333)
Gene ID:	13036
Molecular Weight:	Approximately 42 kDa

PROPERTIES

AA Sequence	<pre> A E L T V N A I E K F H F K S W M K Q H Q K T Y S S V E Y N H R L Q M F A N N W R K I Q A H N Q R N H T F K M A L N Q F S D M S F A E I K H K F L W S E P Q N C S A T K S N Y L R G T G P Y P S S M D W R K K G N V V S P V K N Q G A C A S C W T F S T T G A L E S A V A I A S G K M L S L A E Q Q L V D C A Q A F N N H G C K G G L P S Q A F E Y I L Y N K G I M E E D S Y P Y I G K D S S C R F N P Q K A V A F V K N V V N I T L N D E A A M V E A V A L Y N P V S F A F E V T E D F L M Y K S G V Y S S K S C H K T P D K V N H A V L A V G Y G E Q N G L L Y W I V K N S W G S Q W G E N G Y F L I E R G K N M C G L A A C A S Y P I P Q V </pre>
Biological Activity	Measured by its ability to cleave the fluorogenic peptide substrate, Arg-7-amido-4-methylcoumarin (R-AMC). The specific activity is >700 pmol/min/μg.
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.
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 H is a lysosomal cysteine protease belongs to the papain family. Cathepsin H is synthesized as a precursor
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protein, consisting of a signal peptide (residues 1-20), a propeptide (residues 21-95), a mini chain (residues 96-103), a heavy chain (residues 114-290) and a light chain (residues 291-333)^[1].

REFERENCES

- [1]. M Söderström, et al. Cathepsin expression during skeletal development. *Biochim Biophys Acta*. 1999 Jul 7;1446(1-2):35-46.
- [2]. W P Lafuse, et al. IFN-gamma increases cathepsin H mRNA levels in mouse macrophages. *J Leukoc Biol*. 1995 Apr;57(4):663-9.
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Caution: Product has not been fully validated for medical applications. For research use only.

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