

Cathepsin B Protein, Human (His)

Cat. No.:	HY-P70830
Synonyms:	Cathepsin B; APP Secretase; APPS; Cathepsin B1; CTSB; CPSB
Species:	Human
Source:	E. coli
Accession:	AAH10240.1 (R18-I339)
Gene ID:	1508
Molecular Weight:	34&38-50 kDa

PROPERTIES

AA Sequence

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R S R P S F H P V S   D E L V N Y V N K R   N T T W Q A G H N F   Y N V D M G Y L K R
L C G T F L G G P K   P P Q R V M F T E D   L K L P A S F D A R   E Q W P Q C P T I K
E I R D Q G S C G S   C W A F G A V E A I   S D R I C I H T N A   H V S V E V S A E D
L L T C C G S M C G   D G C N G G Y P A E   A W N F W T R K G L   V S G G L Y E S H V
G C R P Y S I P P C   E H H V N G S R P P   C T G E G D T P K C   S K I C E P G Y S P
T Y K Q D K H Y G Y   N S Y S V S N S E K   D I M A E I Y K N G   P V E G A F S V Y S
D F L L Y K S G V Y   Q H V T G E M M G G   H A I R I L G W G V   E N G T P Y W L V A
N S W N T D W G D N   G F F K I L R G Q D   H C G I E S E V V A   G I P R T D Q Y W E
K I
  
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Biological Activity

The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.

Appearance

Solution

Formulation

Supplied as a 0.2 µm filtered solution of PBS, 8% Sucrose, 0.05% Tween 80, pH7.4.

Endotoxin Level

<1 EU/µg, determined by LAL method.

Reconstitution

N/A

Storage & Stability

Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.

Shipping

Shipping with dry ice

DESCRIPTION

Background

Cathepsin B Protein, a thiol protease, is thought to play a crucial role in intracellular protein degradation and turnover. This enzyme cleaves matrix extracellular phosphoglycoprotein MEPE and is implicated in the solubilization of cross-linked

TG/thyroglobulin within the thyroid follicle lumen. Beyond its role in cellular processes, Cathepsin B has been associated with tumor invasion and metastasis, highlighting its potential significance in cancer-related pathways.

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

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