

Cathepsin E Protein, Mouse (HEK293, His)

Cat. No.:	HY-P7751
Synonyms:	rMuCathepsin E, His; Cathepsin E; ctse;
Species:	Mouse
Source:	HEK293
Accession:	P70269 (S60-P397)
Gene ID:	13034
Molecular Weight:	Approximately 42.0 kDa

PROPERTIES

AA Sequence

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

Biological Activity

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

Appearance

Lyophilized powder.

Formulation

Lyophilized after extensive dialysis against 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 ddH₂O. 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 E is an aspartic protease and a member of the peptidase A1 family of proteases. As an intracellular, hydrolytic

aspartic protease, Cathepsin E is mainly expressed in cells of the immune and gastrointestinal systems, lymphoid tissues, erythrocytes, and cancer cells^[1].

Cathepsin E functions by breaking down proteins through the hydrolysis of peptide bonds at a specific peptide sequence site. And Cathepsin E plays an important role in the degradation of proteins, the generation of bioactive proteins, and antigen processing^[2].

Mouse Cathepsin E is synthesized as a precursor protein, consisting of a signal peptide (residues 1-18), a propeptide (residues 19-59), and a mature chain (residues 60-397)^[3].

REFERENCES

[1]. T Tsukuba, et al. New functional aspects of cathepsin D and cathepsin E. *Mol Cells*

[2]. T Azuma, et al. Human gastric cathepsin E. Predicted sequence, localization to chromosome 1, and sequence homology with other aspartic proteinases. *J Biol Chem*

[3]. P J Tatnell, et al. Cloning, expression and characterisation of murine procathepsin E. *FEBS Lett.* 1997 May 12;408(1):62-6.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA