

Product Data Sheet

Cathepsin E Protein, Human (HEK293, His)

Cat. No.:	HY-P7750
Synonyms:	rHuCathepsin E, His; Cathepsin E; CTSE
Species:	Human
Source:	HEK293
Accession:	P14091 (S20-P396)
Gene ID:	1510
Molecular Weight:	Approximately 42-48 kDa

PROPERTIES

AA Sequence	SLHRVPLRRH	PSLKKKLRAR	SQLSEFWKSH	NLDMIQFTES	
	CSMDQSAKEP	LINYLDMEYF	GTISIGSPPQ	NFTVIFDTGS	
	SNLWVPSVYC	ТЅРАСКТНЅR	FQPSQSSTYS	QPGQSFSIQY	
	GTGSLSGIIG	ADQVSVEGLT	VVGQQFGESV	TEPGQTFVDA	
	EFDGILGLGY	PSLAVGGVTP	VFDNMMAQNL	VDLPMFSVYM	
	SSNPEGGAGS	ELIFGGYDHS	H F S G S L N W V P	V Τ Κ Q Α Y W Q Ι Α	
	LDNIQVGGTV	MFCSEGCQAI	VDTGTSLITG	PSDKIKQLQN	
	AIGAAPVDGE	YAVECANLNV	MPDVTFTING	VPYTLSPTAY	
	TLLDFVDGMQ	FCSSGFQGLD	IHPPAGPLWI	LGDVFIRQFY	
	SVFDRGNNRV	GLAPAVPHHH	ННН		
Biological Activity	The enzyme activity of this	s recombinant protein is tes	ting in progress, we cannot o	offer a guarantee yet.	
Appearance	Lyophilized powder.				
Formulation	Lyophilized after extensive dialysis against 20 mM MES, 150 mM NaCl, pH 5.5.				
For the transfer to sold					
Endotoxin Level	<1 EU/ μ g, determined by LAL method.				
Poconsititution	It is not recommanded to	reconstitute to a concentral	ion loss than 100 ug/mL in d	dH.O. Earlang tarm starage it is	
Reconstitution	recommended to add a ca	arrier protein (0.1% BSA 5%	HSA 10% EBS or 5% Trebal		
	recommended to add a ca	amer protein (0.170 BSA, 570	113A, 10% FD3 01 3% Henald	556).	
Storage & Stability	Stored at -20°C for 2 years	After reconstitution it is st	able at 4°C for 1 week or -20°	C for longer (with carrier protein)) It is
	recommended to freeze a	liquots at -20°C or -80°C for	extended storage.	e for tonger (mar earlier protein,	/. 1015
Shipping	Room temperature in con	tinental US: may vary elsew	here.		
rr0					

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] . Human Cathepsin E is synthesized as a precursor protein, consisting of a signal peptide (residues 1 17), a propeptide (residues 18 53), and a mature chain (residues 54 396) ^[3] .

REFERENCES

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

[2]. F Grüninger-Leitch, et al. Identification of beta-secretase-like activity using a mass spectrometry-based assay system. Nat Biotechnol. 2000 Jan;18(1):66-70.

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

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

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