

Product Data Sheet

Cathepsin B Protein, Human (L26V, HEK293, His)

Cat. No.:	HY-P78682
Synonyms:	CTSB; CPSB; APPS
Species:	Human
Source:	HEK293
Accession:	P07858-1 (R18-I339, L26V)
Gene ID:	1508
Molecular Weight:	10-45 kDa

PROPERTIES

AA Sequence					
/ ar ocquence	R S R P S F H P V S	DELVNYVNKR	NTTWQAGHNF	Y N V D M S Y L K R	
	LCGTFLGGPK	PPQRVMFTED	LKLPASFDAR	EQWPQCPTIK	
	EIRDQGSCGS	CWAFGAVEAI	SDRICIHTNA	HVSVEVSAED	
	LLTCCGSMCG	DGCNGGYPAE	AWNFWTRKGL	VSGGLYESHV	
	GCRPYSIPPC	EHHVNGSRPP	СТGЕGDТРКС	SKICEPGYSP	
	ТҮКQDКНҮGҮ	NSYSVSNSEK	DIMAEIYKNG	P V E G A F S V Y S	
	DFLLYKSGVY	QHVTGEMMGG	HAIRILGWGV	ENGTPYWLVA	
	NSWNTDWGDN	GFFKILRGQD	HCGIESEVVA	GIPRTDQYWE	
	KI				
Biological Activity	Measured by its ability to o	cleave the fluorogenic pepti	de substrate Z-LR-AMC. Read	at excitation and emission wavelengths	
	of 380 nm and 460 nm. Th	e specific activity is ≥2500 p	mol/min/µg, as measured ur	nder the described conditions.	
Appearance	Lyophilized powder				
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Formulation	Lyophilized from a 0.2 µm filtered solution of 50 mM Tris, 150 mM NaCl, pH 8.0 or PBS, 6% Trehalose, pH 7.4.				
Endotoxin Level	<1 EU/µg, determined by l	AL method.			
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Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μ g/mL in ddH ₂ O. For long term storage it is				
	recommended to add a ca	rrier protein (0.1% BSA, 5%	HSA, 10% FBS or 5% Trehald	ose).	
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.		
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Snipping	Room temperature in con	tinental US; may vary elsew	here.		

DESCRIPTION

Background	Cathensin B Protein a thiol protease, is thought to play a crucial role in intracellular protein degradation and turnover
Buckground	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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