

Cathepsin B Protein, Rat (HEK293, His)

Cat. No.:	HY-P74345
Synonyms:	Cathepsin B; APPS; CTSB; CPSB
Species:	Rat
Source:	HEK293
Accession:	Q6IN22 (H18-F339)
Gene ID:	64529
Molecular Weight:	Approximately 35-43 kDa due to the glycosylation.

PROPERTIES

AA Sequence	<pre> HDKPSFHPLS DDMINYINKQ NTTWQAGRNF YNVDISYLKK LCGTVLGGPK LPERVGFSED INLPESFDAR EQWSNCP TIA QIRDQGS CGS CWAFGAVEAM SDRIC IHTNG RVNVEVSAED LLTCCGIQCG DGCNGGYPSG AWNFWTRKGL VSGGVYN SHI GCLPYTIPPC EHHVNGSRPP CTGEGDTPKC NKMCEAGYST SYKEDKHYGY TSYSVSDSEK EIMAEIYKNG PVEGAFTVFS DFLTYKSGVY KHEAGDVMGG HAIRILGWGI ENGVPYWLV A NSWNVDWGDN GFFKILRGEN HCGIESEIVA GIPRTQQYWG RF </pre>
Biological Activity	Measured by its ability to cleave the fluorogenic peptide substrate Z-LR-AMC . The specific activity is >2,500 pmol/min/μg.
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.2 μm filtered solution of 25 mM Tris, 150 mM NaCl, pH 7.5. or 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.
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 B is a lysosomal cysteine protease that plays a role in intracellular protein catabolism and is involved in other physiological processes such as antigen processing in immune response, hormone activation, and bone turnover. Cathepsin
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B mediates JNK signaling pathway to regulate the migration of glioma initiation cells. Cathepsin B can enhance the activity of other proteases, including matrix metalloproteinases, urokinase (serine protease urokinase plasminogen activator), and Cathepsin D. Cathepsin B is involved in the pathology of chronic inflammatory diseases of the airway and joints, as well as cancer and pancreatitis^{[1][2][3]}.

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

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