

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	<div> HDKPSFHPLSDDMINYINKQNTTWQAGRNFYNVDISYLKK LCGTVLGGPKLPERVGFSEDI NLPESFDAREQWSNCPTIA QIRDQGS CGSCWAFGAVEAMS D R I C I H T N G R V N V E V S A E D LLTCCGIQCGDGCNGGYP SG A W N F W T R K G L V S G G V Y N S H I GCLPYTIPPC E H H V N G S R P P C T G E G D T P K C N K M C E A G Y S T SYKEDKH Y G Y T S Y S V S D S E K E I M A E I Y K N G P V E G A F T V F S D F L T Y K S G V Y K H E A G D V M G G H A I R I L G W G I E N G V P Y W L V A N S W N V D W G D N G F F K I L R G E N H C G I E S E I V A G I P R T Q Q Y W G R F </div>
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
------------	---

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.

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