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# Recombinant mouse Cathepsin B protein

Catalog Number: ATGP3487

# **PRODUCT INFORMATION**

# **Expression system**

Baculovirus

#### **Domain**

18-339aa

#### UniProt No.

P10605

#### **NCBI Accession No.**

NP 031824

#### **Alternative Names**

Cathepsin B, Ctsb, CB, Cathepsin B1, CatB

# **PRODUCT SPECIFICATION**

### **Molecular Weight**

36.4 kDa (330aa)

#### Concentration

0.5mg/ml (determined by absorbance at 280nm)

#### **Formulation**

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

#### **Purity**

> 90% by SDS-PAGE

#### **Endotoxin level**

< 1 EU per 1ug of protein (determined by LAL method)

# **Biological Activity**

Specific activity is > 2,000pmol/min/ug and is defined as the amount of enzyme that hydrolyze 1pmole of Z-Arg-Arg-AMC to Z-Arg-Arg and AMC per minute at pH 6.0 at 37C.

# Tag

His-Tag

# **Application**

SDS-PAGE, Enzyme Activity

# **Storage Condition**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

# **BACKGROUND**



# Recombinant mouse Cathepsin B protein

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# **Description**

CTSB, also known as cathepsin B preproprotein, is a papain-family cysteine protease that is normally located in lysosomes. It has the ability to degrade several extracellular matrix components at both neutral and acidic pH and has been implicated in the progression of several human and rodent tumors progression and arthritis. Recombinant mouse CTSB, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

# **Amino acid Sequence**

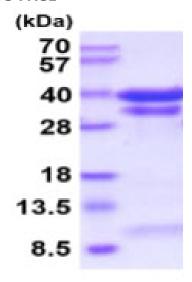
HDKPSFHPLS DDLINYINKQ NTTWQAGRNF YNVDISYLKK LCGTVLGGPK LPGRVAFGED IDLPETFDAR EQWSNCPTIG QIRDQGSCGS CWAFGAVEAI SDRTCIHTNG RVNVEVSAED LLTCCGIQCG DGCNGGYPSG AWSFWTKKGL VSGGVYNSHV GCLPYTIPPC EHHVNGSRPP CTGEGDTPRC NKSCEAGYSP SYKEDKHFGY TSYSVSNSVK EIMAEIYKNG PVEGAFTVFS DFLTYKSGVY KHEAGDMMGG HAIRILGWGV ENGVPYWLAA NSWNLDWGDN GFFKILRGEN HCGIESEIVA GIPRTDQYWG RFLEHHHHHH

#### **General References**

Podgorski I., et al. (2003) Biochem Soc Symp. 70:263-276. Roshy S., et al. (2003) Cancer Metastasis Rev. 22:271-286.

# **DATA**

#### **SDS-PAGE**



15% SDS-PAGE (3ug)

3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

