

## 32-6709: CTSB Mouse, Active

**Application :** Functional Assay  
**Alternative Name :** Cathepsin B, Cathepsin B1, CTSB.

### Description

Source: Sf9, Baculovirus cells.  
Sterile Filtered clear solution.

Cathepsin B preproprotein (CTSB) is a papain-family cysteine protease which is normally located in lysosomes. CTSB is able to degrade several extracellular matrix components at both neutral and acidic pH and has been implicated in the progression of some human and rodent tumors progression and arthritis.

CTSB Mouse Recombinant produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 330 amino acids (18-339a.a.) and having a molecular mass of 36.4kDa (Molecular size on SDS-PAGE will appear at approximately 28-40kDa).

### Product Info

**Amount :** 2 µg / 10 µg  
**Purification :** Greater than 90% as determined by SDS-PAGE.  
**Content :** CTSB protein solution (0.5mg/ml) containing Phosphate Buffered Saline (pH 7.4) and 10% glycerol.  
**Storage condition :** Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please avoid freeze thaw cycles.  
**Amino Acid :** HDKPSFHPLS DDLINYINKQ NTTWQAGRNF YNVDISYLKK LCGTVLGGPK LPGRVAFGED IDLPETF DAR  
EQWSNCPTIG QIRDQGSCGS CWAFGAVEAI SDRTCIHTNG RVNVEVSAED LLTCCGIQCG  
DGCNGGYPSG AWSFWTKKGL VSGGVYNHSHV GCLPYTIPPC EHHVNGSRPP CTGEGDTPRC  
NKSCGAGYSP SYKEDKHFGY TSYSVSNVSK EIMAEIYKNG PVEGAFVFS DFLTYKSGVY KHEAGDMMGG  
HAIRILGWGV ENGVPYWLAA NSWNLDWGDN GFFKILRGEN HCGIESEIVA GIPRTDQYWG  
RFLEHHHHHH.

### Application Note

Specific activity is > 2,000 pmol/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.