

**Ctsb, 18-339aa, Mouse, His-tag, Baculovirus (Bioactivity Validated)**

**Cat.NO.: TP01775**

3th Edition

**Synonyms:**Cathepsin B, Ctsb, CB

**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.

**Form:**Liquid. In Phosphate Buffered Saline (pH 7.4) containing 10% glycerol.

**Molecular Weight:**36.4kDa (330aa), 28-40kDa (SDS-PAGE under reducing conditions)

**Sequences:**

HDKPSFHPLSDDLININKQNTTWQAGRNFYNVDISYLKCLCGTVLGGPKLPGRVAFGEDIDLPEFDAREQWSNC  
PTIGQIRDQGSQSCWAFGAVEAISDRTCIHTNGRVNVEVSAEDLLTCCGIQCGDGCNGGYPSGAWSFWTKKGLV  
SGGVYN SHVGCLPYTIPPCEHHVNGSRPPCTGEGDTPRCNKSC EAGYSPSYKEDKHFGYTSYSVSNVKEIMAEI  
YKNGPVEGAFTVFSDFLTYKSGVYKHEAGDMMGGHAIRILGWGVENGVPYWLAANSWNLDWGDNGFFKILRGEN  
HCGIESEIVAGIPRTDQYWGRFLEHHHHHH

**Purity:**> 95% by HPLC

**Concentration:**0.5mg/ml (determined by Absorbance at 280nm)

**Endotoxin Level:**<1.0 EU per 1 ug of protein (determined by LAL method)

**Storage:**Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.