

## 32-6716: CTSZ Mouse, Active

**Application :** Functional Assay  
**Alternative Name :** Cathepsin Z, Cathepsin X, Cysteine-Type Carboxypeptidase, Lysosomal Carboxypeptidase B, Carboxypeptidase LB, Cathepsin B2, Cathepsin IV, Cathepsin Z1, Cathepsin P, Cathepsin Y, EC 3.4.18.1, Preprocathepsin P, CTSX.

### Description

Source: Sf9, Baculovirus cells.

Sterile Filtered colorless solution.

Cathepsin-Z (CTSZ) is a lysosomal cysteine proteinase and a member of the peptidase C1 family. CTSZ, which is known also as cathepsin X and cathepsin P, exhibits carboxy-monopeptidase and carboxy-dipeptidase activities. CTSZ is expressed ubiquitously in cancer cell lines and primary tumors and as other members of this family, takes part in tumorigenesis.

CTSZ Mouse Recombinant produced in Baculovirus is a single, glycosylated, polypeptide chain containing 292 amino acids (23-306 aa) and having a molecular mass of 32.8kDa. CTSZ is fused to a 8 amino acid His tag at C-terminus and purified by proprietary chromatographic techniques.

### Product Info

**Amount :** 1 µg / 5 µg  
**Purification :** Greater than 95.0% as determined by SDS-PAGE.  
**Content :** The CTSZ solution (0.5 mg/ml) contains 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). Avoid multiple freeze-thaw cycles.  
**Amino Acid :** ARARLYFRSG QTCYHPIRGD QLALLGRRTY PRPHEYLSPA DLPKNWDWRN VNGVNYASVTRNQHIPQYCG SCWAHGSTSA MADRINIKRK GAWPSILLSV QNVIDCGNAG SCEGGNDLPVWEYAHKHGIP DETCNYYQAK DQDCDFNQC GTCTEFKECH TIQNYTLWRV GDYGSLSGREKMMAEIYANG PISCGIMATE MMSNYTGGIY AEHQDQAVIN HIISVAGWGV SNDGIEYWIVRNSWGEPWGE KGWMRIVTST YKGGTGDSYN LAIESACTFG DPIVLEHHHH HH

### Application Note

Specific activity is > 3,000 pmol/min/ug. One unit will convert 1 pmole of Mca-PLGL-Dpa-AR-NH<sub>2</sub> to MCA- Pro-Leu-OH per minute at pH 3.5 at 25°C.