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**Product Data Sheet**


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Product Name: CTSZ Mouse, Active

Cat. No.: GP26143

Batch No.: 1

**Product Data**

Purity &gt;98% Source Sf9, Baculovirus cells.

Physical Appearance solid Shipping Condition withIcePacks

Synonyms 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.

Amino Acid Sequence ARARLYFRSG QTCYHPIRGD QLALLGRRTY PRPHEYLSPA DLPKNWDWRN VNGVNYASVTRNQHIPQYCG SCWAHGSTSA MADRINIKRK GAWPSILLSV QNVIDCGNAG SCEGGNDLPVWEYAHKHGIP DETCNNYQAK DQDCDKFNQC GTCTEFKECH TIQNYTLWRV GDYGSLSGREKMMAEIYANG PISCGIMATE MMSNYTGGIY AEHQDQAVIN HIISVAGWGV SNDGIEYWIVRNSWGEPWGE KGWMRIVTST YKGGTGDSYN LAIESACTFG DPIVLEHHHH HH

Formulation The CTSZ solution (0.5 mg/ml) contains Phosphate Buffered Saline (pH 7.4) and 10% glycerol.

**Introduction**

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.

**Biological Activity**

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.

**Stability**

Store at 46vC if entire vial will be used within 2-4 weeks. Store. frozen at -206vC for

**Caution: Product has not been fully validated for medical applications. For research use only.**

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Store at 4°C, in the dark. The product can be used within 2-3 weeks after receipt, or 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.

### Background

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.

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