

# Recombinant human Cathepsin Z protein

Catalog Number: ATGP2328

## PRODUCT INFORMATION

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**Expression system**

E.coli

**Domain**

62-303aa

**UniProt No.**

Q9UBR2

**NCBI Accession No.**

NP\_001327

**Alternative Names**

Carboxypeptidase LB, Cathepsin B2, Cathepsin IV, Cathepsin P, Cathepsin X, Cathepsin Y, Cathepsin Z, Cathepsin Z preproprotein, Cathepsin Z1, CatX, CTSP, CTSX, CTSZ, Cysteine-type carboxypeptidase, Lysosomal carboxypeptidase B

## PRODUCT SPECIFICATION

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**Molecular Weight**

29.5 kDa (265aa)

**Concentration**

1mg/ml (determined by Bradford assay)

**Formulation**

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 0.4M urea

**Purity**

&gt; 90% by SDS-PAGE

**Tag**

His-Tag

**Application**

SDS-PAGE, Denatured

**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

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**Description**

CTSZ is a lysosomal cysteine proteinase and member of the peptidase C1 family. It exhibits both carboxy-monopeptidase and carboxy-dipeptidase activities. The protein has also been known as cathepsin X and cathepsin P. This gene is expressed ubiquitously in cancer cell lines and primary tumors and, like other members of this family, may be involved in tumorigenesis. At least two transcript variants of this gene have been found,

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but the full-length nature of only one of them has been determined. Recombinant human CTSZ protein, fused to His-tag at N-terminus, was expressed in *E. coli*.

## Amino acid Sequence

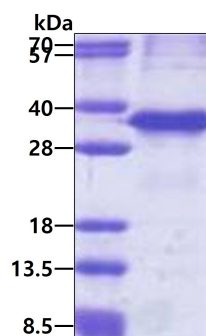
<MGSSHHHHHH SSGLVPRGSH MGS>LPKSWDW RNVDGVNYAS ITRNQHIPQY CGSCWAHAST SAMADRINIK  
RKGAWPSTLL SVQNVIDCGN AGSCEGGNDL SVWDYAHQHG IPDETCNNYQ AKDQECDKFN QCGTCNEFKE  
CHAIRNYTLW RVGDYGSLSG REKMMAEIYA NGPISCGIMA TERLANYTGG IYAEYQDTTY INHVSVAGW GISDGTEYWI  
VRNSWGEPWG ERGWLRIVTS TYKDGKGARY NLAIEEHCTF GDPIV

## General References

Santamaria I., et al. (1998). *J Biol Chem* 273 (27): 16816-23.

## DATA

### SDS-PAGE



3 $\mu$ g by SDS-PAGE under reducing condition and visualized by coomassie blue stain.