

Recombinant human Cathepsin Z protein

Catalog Number: ATGP2328

PRODUCT INFORMATION

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

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

> 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

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

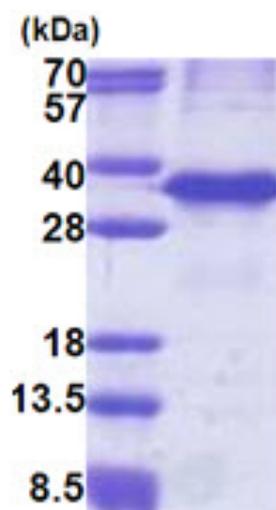
MGSSHHHHHH SGLVPRGSH MGSLPKSWDW RNVDGVNYAS ITRNQHIPQY CGSCWAHAST SAMADRINIK
RKGAWPSTLL SVQNVIDCGN AGSCEGGNDL SVWDYAHQHG IPDETCNNYQ AKDQECDKFN QCGTCNEFKE
CHAIRNYTLW RVGDYGSLSG REKMMAEIYA NGPISCGIMA TERLANYTGG IYAEYQDTTY INHVSVAGW GISDGTEYWI
VRNSWGEPWG ERGWLRIVTS TYKDGKGARY NLAIEEHCTF GDPIV

General References

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

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)