Recombinant mouse Cathepsin Z protein

Catalog Number: ATGP3877

PRODUCT INFORMATION

Expression system
Baculovirus

Domain
23-306aa

UniProt No.
Q9WUU7

NCBI Accession No.
NP_071720

Alternative Names
Cathepsin X/Z/P, CTSZ, AI787083, AU019819, CTSX, D2Wsu143e

PRODUCT SPECIFICATION

Molecular Weight
32.8 kDa (292aa)

Concentration
0.5mg/ml (determined by absorbance at 280nm)

Formulation
Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

Purity
> 95% by SDS-PAGE

Endotoxin level
< 1 EU per 1ug of protein (determined by LAL method)

Biological Activity
Specific activity is > 3,000pmol/min/ug in which one unit will convert 1.0pmole of Mca-PLGL-Dpa-AR-NH2 to MCA- Pro-Leu-OH per minute at pH 3.5 at 25C

Tag
His-Tag

Application
SDS-PAGE, Enzyme Activity

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

Cathepsin X/Z/P, also known as cathepsin Z/X, is a relatively new cysteine protease of the papain family. Compared to other members of the papain family, It has a short proregion and unique insertions. Acting as a carboxypeptidase, It displays a unique specificity. Recombinant mouse Cathepsin X/Z/P, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques

Amino acid Sequence

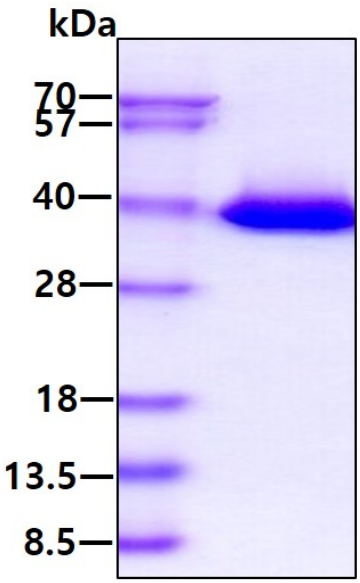
ARARLYFRSG QTCYHPIRGD QLALLGRRTY PRPHEYLSPA DLPKNWDWRN VNGVNYASVT RNQHIPQYCG SCWAHGSTSA MADRINIKRK GAWPSILLSV QNVIDCGNAG SCEGGNDLPV WEYAHKHGIP DETCNNYQAK DQDCDKFNQC GTCTEFKECH TIQNYTLWRV GDYGSLSGRE KMMAEIYANG PISCGIMATE MMSNYTGGIY AEHQDQAVIN HIISVAGWGV SNDGIEYWIV RNSWGEPWGE KGWMRIVTST YKGGTGDSYN LAIESACTFG DPIV<LEHHHH HH>

General References

Santamaria., et al. (1998) J. Biol. Chem. 273:16816-16823.
Menard., et al. (2001) Biol. Chem. 382:839-845.

DATA

SDS-PAGE



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