

Recombinant mouse Cathepsin E protein

Catalog Number: ATGP3279

PRODUCT INFORMATION

Expression system

Baculovirus

Domain

21-397aa

UniProt No.

P70269

NCBI Accession No.

NP_031825

Alternative Names

CTSE, A430072003Rik, C920004C08Rik, CatE, CE

PRODUCT SPECIFICATION

Molecular Weight

41.8 kDa (385aa)

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)

Tag

His-Tag

Application

SDS-PAGE

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

CTSE, also known as cathepsin E, belongs to an intracellular aspartic protease of the pepsin family. It plays an important role in the degradation of proteins, the generation of bioactive proteins, and antigen processing. It is efficient in cleaving the Swedish mutant of amyloid precursor protein (APP) at the B site but show almost on reactivity with the wild-type APP. Recombinant mouse CTSE, fused to His-tag at C-terminus, was expressed in

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insect cell and purified by using conventional chromatography techniques.

Amino acid Sequence

ALHRVPLRRH QSLRKKLRAQ GQLSEFWRSH NLDMTRLSES CNVYSSVNEP LINYLDMEYF GTISIGTPPQ NFTVIFDTGS
SNLWVPSVYC TSPACKAHPV FHPSQSDTYT EVGNHFSIQY GTGSLTGIIG ADQVSVEGLT VDGQQFGESV KEPGQTFVNA
EFDGILGLGY PSLAAGGVTP VFDNMMAQNL VALPMFSVYL SSDPQGSGS ELTFGGYDPS HFSGSLNWIP VTKQAYWQIA
LDGIQVGDV MFCSEGCQAI VDTGTSLITG PPDKIKQLQE AIGATPIDGE YAVDCATLDT MPNVTFLLINE VSYTLNPTDY
ILPDLVEGMQ FCGSGFQGLD IPPPAGPLWI LGDVFIRQFY SVFDRGNNQV GLAPAVPLEH HHHHH

General References

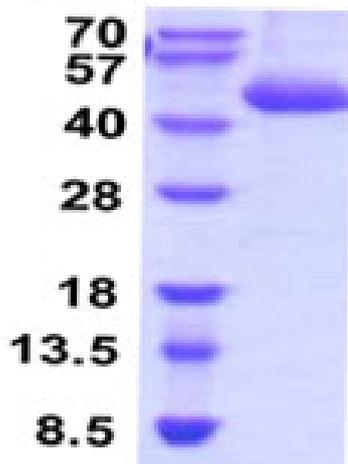
Tsukuba T., et al. (2000) Mol. Cells 10:601-611.

Bennett K., et al. (1992) Eur. J. Immunol. 22: 1519-1524.

DATA

SDS-PAGE

(kDa)



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

15% SDS-PAGE (3ug)