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

insect cell and purified by using conventional chromatography techniques.

Amino acid Sequence

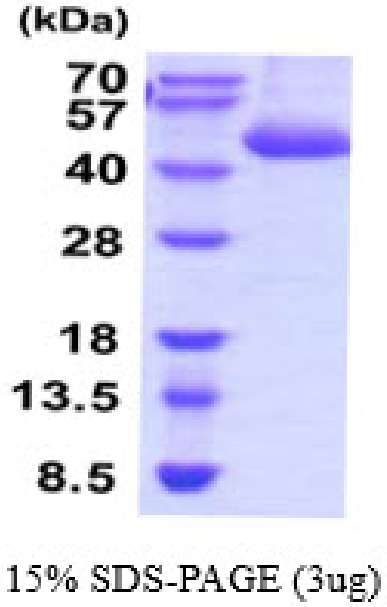
ALHRVPLRRH QSLRKKLRAQ GQLSEFWRSH NLDMTRLSES CNVYSSVNEP LINYLDMEYF GTISIGTPPQ NFTVIFDTGS SNLWVPSVYC TSPACKAHPV FHPSQSDTYT EVGNHFSIQY GTGSLTGIIG ADQVSVEGLT VDGQQFGESV KEPGQTFVNA EFDGILGLGY PSLAAGGVTP VFDNMMAQNL VALPMFSVYL SSDPQGGSGS ELTFGGYDPS HFSGSLNWIP VTKQAYWQIA LDGIQVGDTV MFCSEGCQAI VDTGTSLITG PPDKIKQLQE AIGATPIDGE YAVDCATLDT MPNVTFLINE 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



15% SDS-PAGE (3ug)

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