

Recombinant mouse UCHL3 protein

Catalog Number: ATGP3413

PRODUCT INFORMATION

Expression system

Baculovirus

Domain

1-230aa

UniProt No.

Q9JKB1

NCBI Accession No.

NP_057932

Alternative Names

Ubiquitin carboxyl-terminal hydrolase isozyme L3, Ubiquitin carboxyl-terminal esterase L3, Ubiquitin thioesterase L3, UCH-L3

PRODUCT SPECIFICATION

Molecular Weight

27.2 kDa (238aa) 28-40kDa (SDS-PAGE under reducing conditions)

Concentration

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

Formulation

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

Purity

> 90% by SDS-PAGE

Endotoxin level

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

Biological Activity

Specific activity is > 9,000pmol/min/ug, and is defined as the amount of enzyme that hydrolysis 1.0pmole of ubiquitin-AMC per minute at pH 7.5, at 37C.

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.

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BACKGROUND

Description

Uchl3, as known as ubiquitin carboxyl-terminal hydrolase isozyme L3, is a member of the peptidase C12 family of deubiquitinating enzymes. It is widely expressed with the highest levels being observed in heart, testis, thymus and striated muscle. This protein is suggested to function in the central nervous system. In particular, it is involved in the maintenance of neurons of the gracile tract, nucleus tractus, solitarius, and area postrema, and in working memory. Recombinant mouse Uchl3, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Amino acid Sequence

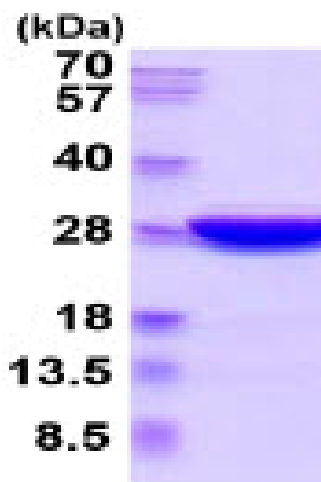
MEGQRWLPLE ANPEVTNQFL KQLGLHPNWQ FVDVYGMEPE LLSMVPRPVC AVLLLPITE KYEVFRTEEE EKIKSQGQDV
TSSVYFMKQT ISNACGTIGL IHAIANNKDK MHFESGSTLK KFLEESVSMS PEERAKFLEN YDAIRVTHET SAHEGQTEAP
SIDEKVDLHF IALVHVDGHL YELDGRKPPF INHGKTSDET LLEDAIEVCK KFMERDPDEL RFNAIALSAA LEHHHHHH

General References

Mtango NR., et al. (2012) J. Cell. Physiol. 227:2022-2029.
Dennissen FJ., et al. (2011) FEBS Lett. 585:2568-2574.

DATA

SDS-PAGE



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

15% SDS-PAGE (3ug)