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# **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, solitaris, 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**

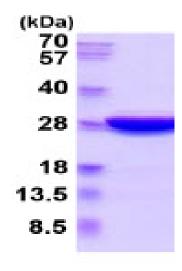
MEGQRWLPLE ANPEVTNQFL KQLGLHPNWQ FVDVYGMEPE LLSMVPRPVC AVLLLFPITE KYEVFRTEEE EKIKSQGQDV TSSVYFMKQT ISNACGTIGL IHAIANNKDK MHFESGSTLK KFLEESVSMS PEERAKFLEN YDAIRVTHET SAHEGQTEAP SIDEKVDLHF IALVHVDGHL YELDGRKPFP INHGKTSDET LLEDAIEVCK KFMERDPDEL RFNAIALSAA LEHHHHHH

#### **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**



15% SDS-PAGE (3ug)

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

