

# Recombinant human UCH-L5/UCH37 protein

Catalog Number: ATGP1069

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-329aa

### UniProt No.

Q9Y5K5

### NCBI Accession No.

NP\_057068

### Alternative Names

Ubiquitin carboxyl-terminal hydrolase isozyme L5, Ubiquitin C-terminal hydrolase UCH37, Ubiquitin thioesterase L5, INO80 complex subunit R, INO80R, UCH37, CGI-70, AD-019

## PRODUCT SPECIFICATION

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### Molecular Weight

39.7 kDa (349aa) confirmed by MALDI-TOF

### Concentration

0.5mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 5mM DTT, 30% glycerol, 200mM NaCl, 0.1mM PMSF, 2mM EDTA

### Purity

> 90% by SDS-PAGE

### Biological Activity

Specific activity: > 500pmol/min/ug. Measured by the hydrolysis of ubiquitin-AMC at pH 8.0, 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.

## BACKGROUND

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### Description

ubiquitin carboxyl-terminal hydrolase isozyme L5 (uCHL5) belongs to the peptidase C12 family. This protein is protease that specifically cleaves 'Lys-48'-linked polyubiquitin chains, and deubiquitinating enzyme associated

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with the 19S regulatory subunit of the 26S proteasome. Recombinant human uCHL5 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

### Amino acid Sequence

MGSSHHHHHH SSSLVPRGSH MTGNAGEWCL MESDPGVFTE LIKGFGRGA QVEEWSLEP ENFEKLKPVH GLIFLKWQP  
GEEPAGSVVQ DSRLDTIFFA KQVINNACAT QAIVSVLLNC THQDVHLGET LSEFKFSQS FDAAMKGLAL SNSDVIRQVH  
NSFARQQMFE FDTKTSAKEE DAFHFVSYVP VNGRLYELDG LREGPIDLGA CNQDDWISAV RPVIEKRIQK YSEGEIRFNL  
MAIVSDRMI YEQKIAELQR QLAEPEPMDT DQGNSMLSAI QSEVAKNQML IEEEVQKLKR YKIENIRRKH NYLPPFIMELL  
KTLAEHQQLI PLVEKAKEKQ NAKKAQETK

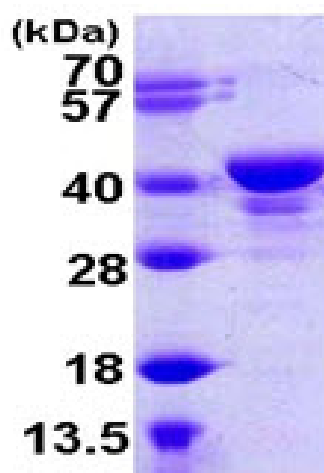
### General References

Yao T., et al. (2006) Nat. Cell Biol. 8:994-1002

Nishio K, et al.(2009) Biochem Biophys Res Commun. 390(3):855-60.

## DATA

### SDS-PAGE



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

15% SDS-PAGE (3ug)