Recombinant human UCH-L5/UCH37 protein

Catalog Number: ATGP1069

PRODUCT INFORMATION

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

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

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

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

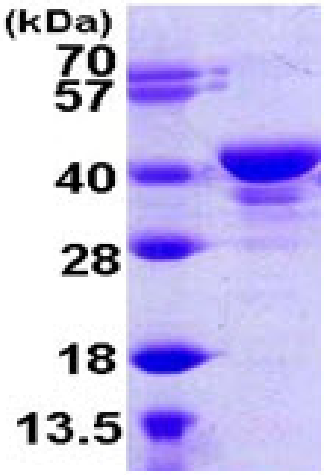
MGSSHHHHHH SSGLVPRGSH MTGNAGEWCL MESDPGVFTE LIKGFGCRGA QVEEIWSLEP ENFEKLKPVH GLIFLFKWQP GEEPAGSVVQ DSRLDTIFFA KQVINNACAT QAIVSVLLNC THQDVHLGET LSEFKEFSQS FDAAMKGLAL SNSDVIRQVH NSFARQQMFE FDTKTSAKEE DAFHFVSYVP VNGRLYELDG LREGPIDLGA CNQDDWISAV RPVIEKRIQK YSEGEIRFNL MAIVSDRKMI YEQKIAELQR QLAEEEPMDT DQGNSMLSAI QSEVAKNQML IEEEVQKLKR YKIENIRRKH NYLPFIMELL 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



15% SDS-PAGE (3ug)

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