

Recombinant Human UCHL5, His-tagged

Cat. No. UCHL5-1519H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human UCHL5 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques (1-329aa).
Species	Human
Source	Human
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.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 5mM DTT, 30% glycerol, 200mM NaCl, 0.1mM PMSF, 2mM EDTA
Molecular Weight	39.7kDa (349aa), confirmed by MALDI-TOF
Purity	> 90% by SDS - PAGE
Concentration	0.5mg/ml (determined by Bradford assay)
Biological activity	Specific activity: > 500 pmole/min/ug. Measured by the hydrolysis of Ubiquitin-AMC at pH 8.0, at 37°C.
Activity Assay	1. Prepare a 100ul of recombinant UCH-L5 protein with various concentrations

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(0.48ng, 0.9ng) in assay buffer and equilibrate to 37°C for 10 minutes. (Assay buffer: 50mM Tris-HCl, 0.5 mM EDTA, 1 mM DTT, 0.1 mg/ml Ovalbumin, pH 8.0.) 2. Add 50ul of 1uM Ubiquitin-AMC. 3. Read at excitation wavelengths 355nm and emission 460nm for 5 minutes. - Ubiquitin-AMC - 96 Well Polystyrene Microplate, black - Fluorescent plate reader

Sequences of amino acids

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

Storage

Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

GENE INFORMATION

Gene Name

UCHL5 ubiquitin carboxyl-terminal hydrolase L5 [Homo sapiens]

Official Symbol

UCHL5

Synonyms

UCHL5; UCH37; CGI-70; INO80R; AD-019; UCH-L5; ubiquitin carboxyl-terminal hydrolase L5; ubiquitin carboxyl-terminal hydrolase isozyme L5;
OTTHUMP00000033565; OTTHUMP00000033566; OTTHUMP00000033567;
OTTHUMP00000033568; OTTHUMP00000033570; OTTHUMP00000033571;
OTTHUMP00000033754; INO80 complex subunit R; ubiquitin thioesterase L5;
ubiquitin C-terminal hydrolase UCH37; ubiquitin carboxyl-terminal esterase L5; EC 3.4.19.12

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Gene ID	51377
mRNA Refseq	NM_015984
Protein Refseq	NP_057068
MIM	610667
UniProt ID	Q9Y5K5
Chromosome Location	1q32
Function	cysteine-type peptidase activity; endopeptidase inhibitor activity; omega peptidase activity; peptidase activity; proteasome binding; protein binding; ubiquitin thiolesterase activity; ubiquitin-specific protease activity

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