

## Active Recombinant Full Length Human UCHL3, His-tagged

Cat. No. UCHL3-1518H    Lot. No. (See product label)

### SPECIFICATION

|                            |                                                                                                                                                                                                                                                                                                                                                                                                |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>    | Recombinant human UCHL3 protprot, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques (1-230 aa).                                                                                                                                                                                                                             |
| <b>Species</b>             | Human                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Source</b>              | Human                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>ProteinLength</b>       | 1-230 a.a.                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Description</b>         | Ubiquitin carboxyl-terminal hydrolase isozyme L3, also known as UCHL3, is a member of a gene family whose products hydrolyze small C-terminal adducts of ubiquitin to generate the ubiquitin monomer. UCHL3 play a role in the regulation of neuronal development and spermatogenesis and have been implicated in neurodegenerative diseases. UCHL3 protein is 54% identical to that of UCHL1. |
| <b>Form</b>                | Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT,10% glycerol.                                                                                                                                                                                                                                                                                                                      |
| <b>Molecular Weight</b>    | 28.3kDa (250aa), confirmed by MALDI-TOF                                                                                                                                                                                                                                                                                                                                                        |
| <b>Purity</b>              | > 95% by SDS - PAGE                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Concentration</b>       | 1 mg/ml (determined by Bradford assay)                                                                                                                                                                                                                                                                                                                                                         |
| <b>Biological activity</b> | Specific activity: >3,000 pmole/min/ug. Measured by the hydrolysis of Ubiquitin-AMC at pH 8.0, at 37°C.                                                                                                                                                                                                                                                                                        |

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

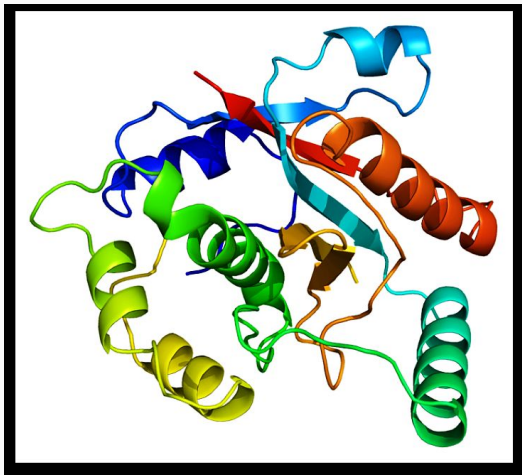
 45-1 Ramsey Road, Shirley, NY 11967, USA

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|---------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Activity Assay</b>           | <p>1. Prepare a 100ul of recombinant UCH-L3 protein with various concentrations (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</p> |
| <b>Sequences of amino acids</b> | <p>MGSSHHHHHH SSGLVPRGSH MEGQRWLPLE ANPEVTNQFL KQLGLHPNWQ<br/>FVDVYGM DPE LLSMVPRPVC AVLLLPITE KYEVFRTEEE EKIKSQGQDV<br/>TSSVYFMKQT ISNACGTIGL IHAIANNKDK MHFESGSTLK KFLEESVSMS<br/>PEERARYLEN YDAIRVTHET SAHEGQTEAP SIDEKVDLHF IALVHVDGHL<br/>YELDGRKPFP INHGETSDET LLEDAIEVCK KFMERDPDEL RFNAIALSAA</p>                                                                                                                                    |
| <b>Storage</b>                  | <p>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.</p>                                                                                                                                                                                                                                                                                 |
| <b>GENE INFORMATION</b>         |                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Gene Name</b>                | <p>UCHL3 ubiquitin carboxyl-terminal esterase L3 (ubiquitin thiolesterase) [ Homo sapiens ]</p>                                                                                                                                                                                                                                                                                                                                              |
| <b>Official Symbol</b>          | <p>UCHL3</p>                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Synonyms</b>                 | <p>UCHL3; ubiquitin carboxyl-terminal esterase L3 (ubiquitin thiolesterase); ubiquitin carboxyl-terminal hydrolase isozyme L3; ubiquitin thioesterase L3; ubiquitin thiolesterase; UCH-L3; EC 3.4.19.12</p>                                                                                                                                                                                                                                  |
| <b>Gene ID</b>                  | <p>7347</p>                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>mRNA Refseq</b>              | <p>NM_006002</p>                                                                                                                                                                                                                                                                                                                                                                                                                             |

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|------------------------------|---------------------------------------------------------------------------------------------------------|
| Protein Refseq               | NP_005993                                                                                               |
| MIM                          | 603090                                                                                                  |
| UniProt ID                   | P15374                                                                                                  |
| Chromosome Location          | 13q22.2                                                                                                 |
| Function                     | cysteine-type peptidase activity; peptidase activity; ubiquitin thiolesterase activity; protein binding |
| PDB rendering based on 1uch. |                      |