# Recombinant Human UCHL3/UCH-L3 Protein (His Tag)

**Catalog Number: PKSH031053**

**Note:** *Centrifuge before opening to ensure complete recovery of vial contents.*

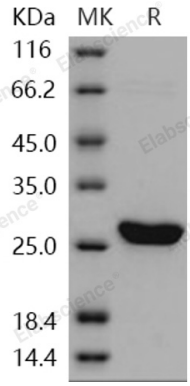
## Description

| | |
|---|---|
| **Species** | Human |
| **Source** | E.coli-derived Human UCHL3/UCH-L3 protein Glu 2-Ala 230, with an N-terminal His |
| **Calculated MW** | 27.0 kDa |
| **Observed MW** | 26 kDa |
| **Accession** | NP_005993.1 |
| **Bio-activity** | Measured by the hydrolysis of UbiquitinAMC. The specific activity is > 14, 000 pmoles/min/μg. |

## Properties

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|---|---|
| **Purity** | > 97 % as determined by reducing SDS-PAGE. |
| **Endotoxin** | Please contact us for more information. |
| **Storage** | Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles. |
| **Shipping** | This product is provided as liquid. It is shipped at frozen temperature with blue ice/ gel packs. Upon receipt, store it immediately at < - 20°C. |
| **Formulation** | Supplied as sterile 20mM Tris, 500mM NaCl, 20% glycerol, 1mM DTT, pH 8.0 |

## Data




> 97 % as determined by reducing SDS-PAGE.

## Background

Ubiquitin carboxyl-terminal hydrolase isozyme L3, also known as UCH-L3, Ubiquitin thioesterase L3 and UCHL3, is a ubiquitin-protein hydrolase which belongs to thepeptidase C12 family. It is involved both in the processing of ubiquitin precursors and of ubiquitinated proteins. This enzyme is a thiol protease that recognizes and hydrolyzes a peptide bond at the C-terminal glycine of either ubiquitin or NEDD8. UCHL3 is highly expressed in heart, skeletal muscle, and testis. UCHL1 and UCHL3 are two of the deubiquitinating enzymes expressed in the brain. These phenotypes indicate the importance of UCHL1 and UCHL3 in the regulation of the central nervous system. UCHL3 functions as a de-ubiquitinating enzyme where lack of its hydrolase activity may result in the prominent accumulation of ubiquitinated proteins and subsequent induction of stress responses in skeletal muscle. UCHL3 has also been identified as a tumor-specific antigen in colon cancer.


Toll-free: 1-888-852-8623
Tel: 1-832-243-6086
Fax: 1-832-243-6017
Web: www.elabscience.com
Email: techsupport@elabscience.com