

UCHL3 Protein, Mouse (His, solution)

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| Cat. No.: | HY-P76119A |
| Synonyms: | UCH-L3; Ubiquitin thioesterase L3; Uchl3 |
| Species: | Mouse |
| Source: | E. coli |
| Accession: | Q9JKB1 (E2-A230) |
| Gene ID: | 50933 |
| Molecular Weight: | Approximately 26 kDa |

PROPERTIES

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| AA Sequence | <pre> EGQRWLPLEA NPEVTNQFLK QLGLHPNWQF VDVYGMPEPEL LSMVP RPVCA VLLLPITEK YEVFRTEEEE KIKSQGDVT SSVYFMKQTI SNACGTIGLI HAIANNKDKM HFESGSTLKK FLEESVSMSP EERAKFLENY DAIRVTHETS AHEGQTEAPS IDEKVDLHFI ALVHVDGHL Y EL DGRKPFPI NHGKTSDETL LEDAIEVCKK FMERDPDELR FNAIALSAA </pre> |
| Biological Activity | Data is not available. |
| Appearance | Solution |
| Formulation | Supplied as a 0.2 µm filtered solution of 50 mM Tris-HCL, 300 mM NaCl, 20% Glycerol, pH 7.4. |
| Endotoxin Level | <1 EU/µg, determined by LAL method. |
| Reconstitution | N/A. |
| Storage & Stability | Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles. |
| Shipping | Shipping with dry ice |

DESCRIPTION

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| Background | <p>UCHL3 Protein is a deubiquitinating enzyme (DUB) that plays a crucial role in controlling the levels of cellular ubiquitin by processing ubiquitin precursors and ubiquitinated proteins. As a thiol protease, it specifically recognizes and hydrolyzes the peptide bond at the C-terminal glycine of ubiquitin or NEDD8. UCHL3 Protein exhibits a preference for 'Lys-48'-linked ubiquitin chains and has a 10-fold preference for Arg and Lys at position P3". Its deubiquitinating activity includes the deubiquitination of ENAC in apical compartments, regulating the recycling of the apical membrane. Additionally, UCHL3</p> |
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Protein indirectly enhances the phosphorylation of IGFIR, AKT, and FOXO1, thereby promoting insulin signaling and insulin-induced adipogenesis. It is also essential for stress-response retinal, skeletal muscle, and germ cell maintenance. Furthermore, UCHL3 Protein may be involved in working memory and can hydrolyze UBB(+1), a mutated form of ubiquitin that is resistant to degradation by the proteasome.

Caution: Product has not been fully validated for medical applications. For research use only.

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