

Product Name: UCHL3

Alternate Names: UCH-L3, Ubiquitin thioesterase L3

Product Code: TDE-087

FOR RESEARCH USE ONLY (RUO)

Verified Applications / Usage

Recombinant UCHL3 is a ubiquitin-specific hydrolase enzyme that has been verified to hydrolyze Ubiquitin-Rhodamine 110 substrate. Appropriate enzyme concentrations are specific to the application.

Physical Characteristics

Species: Human

Predicted MW (kDa): 26 kDa

Source: *E. coli* BL21(DE3) A.I.

Purity: 95 %

Tag: N/A

Formulation: 40 mM HEPES, 100 mM NaCl, 10% Glycerol, 1 mM EDTA, 1 mM TCEP, pH 7.6

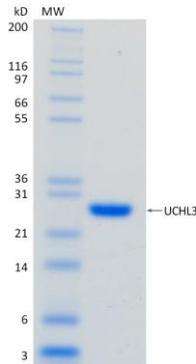
Shipping: The product is shipped with dry ice. Upon receipt, store it immediately at the temperature recommended below.

Stability/Storage: Use a manual defrost freezer and avoid repeated freeze-thaw cycles. Aliquot and store $\leq -70^{\circ}\text{C}$ (stable for 24 months from date of receipt).

Quality Assurance

Purity & SDS-PAGE

Protein ID: Ubiquitin carboxyl-terminal hydrolase isozyme L3



2 µg UCHL3 run on 4-12% SDS-PAGE gel under reducing conditions, then visualized with Colloidal Coomassie Blue Stain.

Activity Assay

Verified in Ubiquitin-Rhodamine Hydrolysis Assay.

Background

Description

Ubiquitin carboxyl-terminal hydrolase isozyme L3 (UCHL3) is a ubiquitin-specific cysteine protease that cleaves ubiquitin from substrate proteins. It cleaves artificial substrates such as Ubiquitin-Rhodamine and Ubiquitin-AMC, but it will not hydrolyze polyubiquitin chains.

Accession Number: P15374

Entrez Gene ID: UCHL3

Protein Sequence

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GPGSMEGQRWLPLEANPEVTNQFLKQLGLHPNWQFVDVYGMDPELLSMVPRPVCVLLLFPIIT  
EKYEVRTEEEEEKIKSQGDVTSSVYFMKQTI SNACGTIGLIHAIANNKDKMHFESGSTLKKF  
LEESVSMSPEERARYLENYDAIRVTHETSAHEGQTEAPSIDEKVDLHFIALVHVDGHLIELDG  
RKFPFPINHGETSDETLLEDAIEVCKKFMERDPDELRFNAIALSAA
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