

Product Name: UCHL1

Alternate Names: Neuron cytoplasmic protein 9.5, PGP 9.5 (PGP9.5), Ubiquitin thioesterase L1

Product Code: TDE-084

FOR RESEARCH USE ONLY (RUO)

Verified Applications / Usage

Recombinant UCHL1 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): 25 kDa

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

Purity: 90 %

Tag: N/A

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

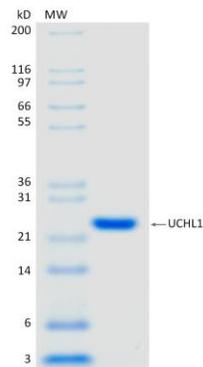
Shipping: The product is shipped with dry ice. Upon receipt, store it immediately at the temperature recommended below.

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: UCHL1



2 µg UCHL1 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 L1 (UCHL1) 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: P09936

Entrez Gene ID: UCHL1

Protein Sequence

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GPGSMQLKPMEINPEMLNKVLSRLGVAGQWRFVDVLGLEEESLGSVPAPACALLLLFPLTAQH  
ENFRKKQIEELKGQEVSPKVYFMKQTIGNSCGTIGLIHAVANNQDKLGFEDGSVLKQFLSETE  
KMSPEDRAKCFEKNEAIQAAHDAVAQEGQCRVDDKVNHFHFILEFNNVDGHLIYELDGRMPFPVNH  
GASSEDLLKDAAKVCREFTEREQGEVRFSAVALCKAA
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