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UCHL1 (1-126) Human

Ubiquitin Carboxyl-Terminal Hydrolase L1 (1-126) Human Recombinant
RCP2499

Product Overview

Name	UCHL1 (1-126) Human

Description

Ubiquitin Carboxyl-Terminal Hydrolase L1 (1-126) Human Recombinant

Synonyms

PGP 9.5, UCHL1, PGP9.5, PARK5.

Source

Escherichia Coli.

Physical Appearance

Filtered White lyophilized (freeze-dried) powder.

Formulation

Each mg was lyophilized with 1xPBS, 0.4% SDS and 4mM DTT.

Stability

Store lyophilized UCHL1 at -20°C. Aliquot the product after reconstitution to avoid repeated freezing/thawing cycles. Reconstituted protein can be stored at 4°C for a limited period of time; it does not show any change after two weeks at 4°C.

Purity

Greater than 90% as determined by SDS-PAGE.

Solubility

It is recommended to add deionized water to prepare a working stock solution of approximately 0.5mg/ml and let the lyophilized pellet dissolve completely. Product is not sterile! Please filter the product by an appropriate sterile filter before using it on cell culture.

Background

Human Ubiquitin Carboxyl-Terminal Hydrolase L1 (UCH-L1) is an important enzyme involved in the ubiquitin-proteasome system, which regulates protein degradation and turnover in cells. UCHL1 Function : UCHL1 mainly removes ubiquitin molecules from proteins, thereby recycling ubiquitin and regulating protein stability. This action is important for controlling various cellular processes and maintaining cellular homeostasis and. UCHL1 Structure UCHL1 is characterized by a catalytic domain which facilitates its hydrolase activity, allowing it to cleave ubiquitin from substrates. UCHL1 Role in Neurodegeneration UCHL1 has been implicated in neurodegenerative diseases, such as

Parkinson’s and Alzheimer's disease. Its expression levels and activity can affect neuronal survival and function. UCH-L1 is also studied in the context of cancer. Altered levels of UCHL1 may affect on tumour progression and response to therapy. UCHL1 Biomarker Potential UCHL1 is being investigated as a potential biomarker for diseases, especially neurodegenerative disorders due to its involvement in various pathologies. UCHL1 Research Ongoing studies focus on understanding its role in various cellular contexts, its regulation, and its potential as a therapeutic target. In conclusion, UCHL1 is a very important component of cellular regulation, with implications in health and disease.

Precautions

UCHL1 (1-126) Human is for research use only and not for use in diagnostic or therapeutic procedures.

Background

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