

UCHL1 recombinant protein

UCHL1, Active

CATALOG # AAA74105	HOST E Coli	APPLICATIONS Western Blot
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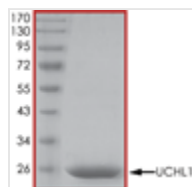
PRODUCT SYNONYMS

UCHL1; Active; PGP 9.5; UCH-L1; NDGOA; PGP95; SPG79; PARK5; UCHL1 recombinant protein

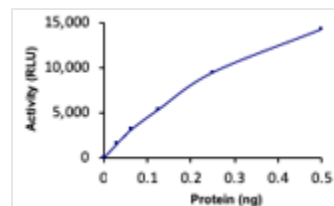
PRODUCT SPECIFICATIONS

Host	E Coli
Form/Format	Recombinant protein stored in 50mM sodium phosphate, pH7.0, 300mM NaCl, 150mM imidazole, 0.1mM PMSF, 0.25mM DTT, 25% glycerol.
Applicable Applications for UCHL1 recombinant protein	WB (Western Blot), Activity Assay
Tag	HIS
Species	Human
Dry Ice Note	The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.
Preparation and Storage	Store product at -70 degree C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.

IMAGES


SDS-PAGE

Purity: Sample Purity Data. For specific information on a given lot, see related technical data sheet.


Activity

Specific Activity: Sample Activity Plot. For specific information on a given lot, see related technical data sheet.

ADDITIONAL INFORMATION

Related Product Information for UCHL1 recombinant protein	Recombinant human UCHL1 was expressed in E Coli cells using an N-terminal His tag. The UCHL1 gene accession number is NM_004181. UCHL1 (ubiquitin carboxyl-terminal esterase L1) is a member of the peptidase C12 family and is a thiol protease that hydrolyzes the C-terminal glycine of ubiquityl esters and amides. It is expressed in the brain and neuroendocrine system and is essential for cytoplasmic protein degradation via recycling free ubiquitin. Mutations in UCHL1 are associated with Parkinson's Disease (PD) due to its ligase and hydrolase activity, both of which are crucial for neuronal health (1). Dysfunction of the enzyme is also associated with Alzheimer's disease as UCHL1 was found to interact with amyloid beta precursor protein and regulates the production of amyloid beta protein (2).
Product Categories/Family for UCHL1 recombinant protein	DUBs; Cancer; Cardiovascular Disease; Cell Cycle; Cellular Stress; Invasion/Metastasis; Metabolic Disorder

References

1. Liu, Y. et al: The UCH-L1 Gene Encodes Two Opposing Enzymatic Activities that Affect alpha-Synuclein Degradation and Parkinson's Disease Susceptibility. Cell 111: 209-218, 2002.
2. Zhang, M. et al: Overexpression of ubiquitin carboxyl-terminal hydrolase L1 (UCHL1) delays Alzheimer's progression in vivo. Scientific Reports, 4:7298, 2014.

NCBI AND UNIPROT INFORMATION

NCBI GenBank Nucleotide #

[NM_004181](#)

Molecular Weight

25kDa

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/uchl1-recombinant-protein-e-coli-wb-western-blot-activity-assay/74105>