

# Recombinant human PGP9.5/UCHL1 protein

Catalog Number: PGP0701

## PRODUCT INFORMATION

---

### Expression system

E.coli

### Domain

1-223aa

### UniProt No.

P09936

### NCBI Accession No.

NP\_004172

### Alternative Names

Ubiquitin C-terminal hydrolase L1, Ubiquitin carboxyl-terminal esterase L1, Ubiquitin thiolesterase L1, Parkinson Disease 5, PARK5, PGP9.5, Uch-L1, UCHL-1, Neuron cytoplasmic protein 9.5

## PRODUCT SPECIFICATION

---

### Molecular Weight

24.8 kDa (223aa) confirmed by MALDI-TOF (Molecular weight on SDS-PAGE will appear higher)

### Concentration

1mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 2mM EDTA

### Purity

> 95% by SDS-PAGE

### Biological Activity

Specific activity is > 150pmol/min/ug, and is defined as the amount of enzyme that hydrolysis 1.0pmole of ubiquitin-AMC per minute at pH 7.5, at 37C.

### Tag

Non-Tagged

### Application

SDS-PAGE, Enzyme Activity

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

---

### Description

PGP9.5/uCH-L1 is a member of a gene family whose products hydrolyze small C-terminal adducts of ubiquitin to generate the ubiquitin monomer. PGP9.5 is a component of the ubiquitin system, which has a fundamental role

## Recombinant human PGP9.5/UCHL1 protein

Catalog Number: PGP0701

in regulating various biological activities. PGP9.5 gene encodes two opposing enzymatic activities that affect alpha-synuclein degradation and Parkinson's disease susceptibility. Recombinant PGP9.5 protein was expressed in *E. coli* and purified by using conventional chromatography techniques.

### Amino acid Sequence

MQLKPMIINP EMLNKVLSRL GVAGQWRFVD VLGLEESLGS SVPAPACALL LLFPLTAQHE NFRKKQIEEL KGQEVSPKVY  
FMKQTIGNSC GTIGLIHAVA NNQDKLGFED GSVLKQFLSE TEKMSPEDRA KCFEKNEAIQ AAHDAVAQEG QCRVDDKVN  
HFILFNNVDG HLYELDGRMP FPNVHGASSE DTLLKDAAKV CREFTEREQG EVRFSVAVALC KAA

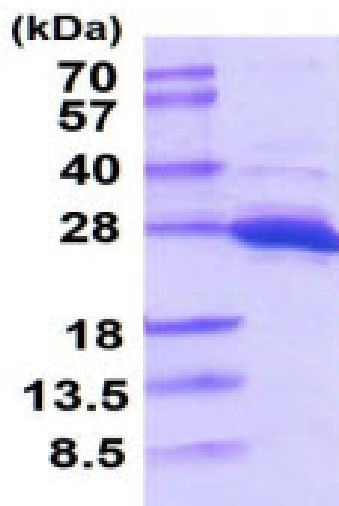
### General References

Sakurai M., et al. (2006) *Cell* 119, 162-171.

Liu Y., et al. (2002) *Cell*. 111(2):209-18.

## DATA

### SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)