

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

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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 VVPAPACALL LLFPLTAQHE NFRKKQIEEL KGQEVSPKVY
FMKQTIGNSC GTIGLIHAVA NNQDKLGFED GSVLKQFLSE TEKMSPEDRA KCFEKNEAIQ AAHDAVAQEG QCRVDDKVN
HFILFNNVDG HLYELDGRMP FPNVHGASSE DTLLKDAAKV CREFTEREQG EVRFSVAVALC KAA

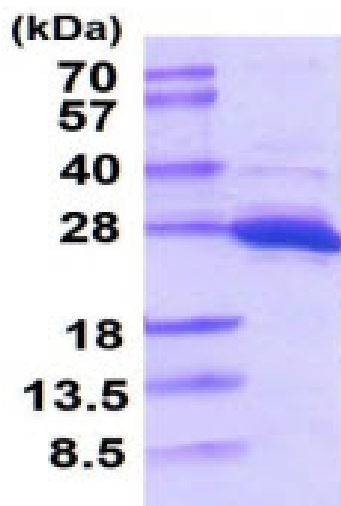
General References

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)