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

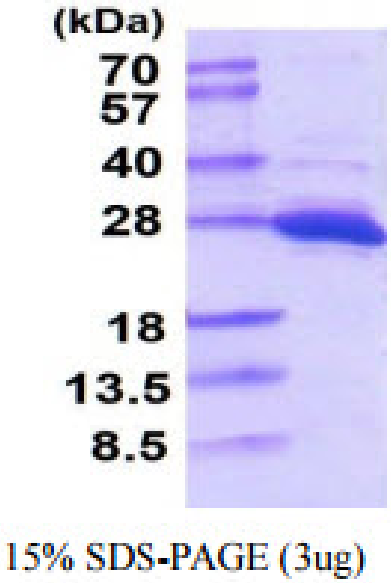
MQLKPMEINP EMLNKVLSRL GVAGQWRFVD VLGLEEESLG SVPAPACALL LLFPLTAQHE NFRKKQIEEL KGQEVSPKVY FMKQTIGNSC GTIGLIHAVA NNQDKLGFED GSVLKQFLSE TEKMSPEDRA KCFEKNEAIQ AAHDAVAQEG QCRVDDKVNF HFILFNNVDG HLYELDGRMP FPVNHGASSE DTLLKDAAKV CREFTEREQG EVRFSAVALC KAA

General References

Sakurai M., et al. (2006) Cell 119, 162-171.
Liu Y., et al. (2002) Cell. 111(2):209-18.

DATA

SDS-PAGE



15% SDS-PAGE (3ug)

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