

Product datasheet for **AR50009PU-N**

UCHL1 / PGP9.5 (1-223) (recombinant) Human Protein

Product data:

Product Type:	Recombinant Proteins
Description:	UCHL1 / PGP9.5 (1-223) (recombinant) human recombinant protein, 0.5 mg
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	MQLKPMEINP EMLNKVLSRL GVAGQWRFVD VLGLEESLGSVPAPACALL LFLPLTAQHE NFRKKQIEEL KGQEVSPKVY FMKQTIGNSC GTIGLIHAVA NNQDKLGFED GSVLKQFLSE TEKMSPEDRA KCFEKNEAIQ AAHDAVAQEG QCRVDDKVN FHFILFNNVDG HLYELDGRMP FPVNHGASSE DTLLKDAAKV CREFTEREQG EVRFSVAVALC KAA
Predicted MW:	24.8 kDa
Concentration:	lot specific
Purity:	>95% by SDS - PAGE
Buffer:	Presentation State: Purified State: Liquid purified protein Buffer System: 20 mM Tris-HCl pH 8.0, 2 mM EDTA
Bioactivity:	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 37°C.
Preparation:	Liquid purified protein
Applications:	Protocol: 1. Prepare a 100ul of recombinant PGP9.5 protein with various concentrations (0.48ng, 0.9ng) in assay buffer and equilibrate to 37C for 10 minutes. (Assay buffer: 50mM Tris-HCl, 0.5 mM EDTA, 1 mM DTT, 0.1 mg/ml Ovalbumin, pH 8.0.) 2. Add 50ul of 1uM Ubiquitin-AMC. 3. Read at excitation wavelengths 355nm and emission 460nm for 5 minutes. - Ubiquitin-AMC (Enzo, Cat.No, BML-SE211) - 96 Well Polystyrene Microplate, black (greiner bio-one, Cat.No, 655077) - Fluorescent plate reader (PerkinElmer, VICTOR X3)
Protein Description:	Recombinant PGP9.5 protein was expressed in E.coli and purified by using conventional chromatography techniques.
Storage:	Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer. Avoid repeated freezing and thawing.



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Stability:	Shelf life: one year from despatch.
RefSeq:	NP_004172
Locus ID:	7345
UniProt ID:	P09936
Cytogenetics:	4p13
Synonyms:	UCH-L1, PGP 9.5, Ubiquitin thioesterase L1, Neuron cytoplasmic protein 9.5
Summary:	The protein encoded by this gene belongs to the peptidase C12 family. This enzyme is a thiol protease that hydrolyzes a peptide bond at the C-terminal glycine of ubiquitin. This gene is specifically expressed in the neurons and in cells of the diffuse neuroendocrine system. Mutations in this gene may be associated with Parkinson disease.[provided by RefSeq, Sep 2009]
Protein Families:	Protocol: 1. Prepare a 100ul of recombinant PGP9.5 protein with various concentrations (0.48ng, 0.9ng) in assay buffer and equilibrate to 37C for 10 minutes. (Assay buffer: 50mM Tris-HCl, 0.5 mM EDTA, 1 mM DTT, 0.1 mg/ml Ovalbumin, pH 8.0.) 2. Add 50ul of 1uM Ubiquitin-AMC. 3. Read at excitation wavelengths 355nm and emission 460nm for 5 minutes. - Ubiquitin-AMC (Enzo, Cat.No, BML-SE211) - 96 Well Polystyrene Microplate, black (greiner bio-one, Cat.No, 655077) - Fluorescent plate reader (PerkinElmer, VICTOR X3)
Protein Pathways:	Parkinson's disease

Product images: