

Product datasheet for **AR39009PU-N**

UCHL5 (1-329, His-tag) Human Protein

Product data:

Product Type:	Recombinant Proteins
Description:	UCHL5 (1-329, His-tag) human recombinant protein, 0.1 mg
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	<u>MGSSHHHHHH SSSLVPRGSH</u> MTGNAGEWCL MESDPGVFTE LIKGFGRGA QVEEWSLEP ENFEKLPVH GLIFLKWQP GEEPAGSVVQ DSRLDTIFFA KQVINNACAT QAIVSVLLNC THQDVHLGET LSEFKFSQS FDAAMKGLAL SNSDVIRQVH NSFARQQMFE FDTKTSAKEE DAFHFVSYVP VNGRLYELDG LREGPIDLGA CNQDDWISAV RPVIEKRIQK YSEGEIRFNL MAIVSDRKMI YEQKIAELQR QLAEPEPMDT DQGNSMLSAI QSEVAKNQML IEEEVQKLKR YKIENIRRKH NYLPFIMELL KTLAEHQQLI PLVEKAKEKQ NAKKAQETK
Tag:	His-tag
Predicted MW:	39.7 kDa
Concentration:	lot specific
Purity:	>90%
Buffer:	Presentation State: Purified State: Liquid purified protein Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 5 mM DTT, 30% glycerol, 200 mM NaCl, 0.1 mM PMSF, 2 mM EDTA
Bioactivity:	Specific: > 500 pmole/min/ug. Measured by the hydrolysis of Ubiquitin-AMC at pH 8.0, at 37°C.
Preparation:	Liquid purified protein
Applications:	Protocol: Activity Assay 1. Prepare 100 ul of recombinant UCHL5 protein with various concentrations (0.48 ng, 0.9 ng) in assay buffer and equilibrate to 37°C 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 50 ul of 1 uM 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)



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Protein Description:	Recombinant human UCHL5 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Storage:	Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C or -70°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
RefSeq:	NP_001186190
Locus ID:	51377
UniProt ID:	Q9Y5K5
Cytogenetics:	1q31.2
Synonyms:	CGI-70; INO80R; UCH-L5; UCH37
Summary:	Protease that specifically cleaves 'Lys-48'-linked polyubiquitin chains. Deubiquitinating enzyme associated with the 19S regulatory subunit of the 26S proteasome. Putative regulatory component of the INO80 complex; however is inactive in the INO80 complex and is activated by a transient interaction of the INO80 complex with the proteasome via ADRM1. [UniProtKB/Swiss-Prot Function]
Protein Families:	Druggable Genome, Protease

Product images: