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## Product Data Sheet

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Product Name: UCHL1 Mouse, Active  
 Cat. No.: GP24947  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Ubiquitin carboxyl-terminal hydrolase isozyme L1; UCH-L1; Neuron cytoplasmic protein 9.5; PGP 9.5; PGP9.5; Ubiquitin thioesterase L1.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSMQLKPME INPEMLNKVL AKLGVAGQWR FADVLGLEEE TLGSVPSPAC ALLLLFPLTA QHENFRKKQI EELKGQEVSP KVFYFMKQTIG NSCGTIGLIH AVANNQDKLE FEDGSVLKQF LSETEKLSPE DRAKCFEKNE AIQAAHDSVA QEGQCRVDDK VNFHFILFNN VDGHLYELDG RMPFPVNHGA SSEDSSLQDA AKVCREFTER EQGEVRFSAV ALCKAA.		
Formulation	UCHL1 protein solution (1mg/ml) containing Phosphate buffered saline (pH7.4), 10% glycerol and 1mM DTT.		

### Introduction

Ubiquitin Carboxyl-Terminal Esterase L1 (UCHL1) is a part of a family whose products hydrolyze small C-terminal adducts of ubiquitin to create the ubiquitin monomer. UCHL1 is a part of the ubiquitin system, which regulates many biological activities. UCHL1 is a thiol protease that distinguishes and hydrolyzes a peptide bond at the C-terminal glycine of ubiquitin. UCHL1 binds to free monoubiquitin and avoids its degradation in lysosomes.

### Biological Activity

Specific activity is > 70 pmol/min/ug, and is defined as the amount of enzyme that hydrolyzes 1.0 pmole of ubiquitin-AMC per minute at pH 7.5, at 37°C.

### Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1%

**Caution: Product has not been fully validated for medical applications. For research use only.**

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HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

UCHL1 Mouse Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 246 amino acids (1-223 a.a) and having a molecular mass of 27.2kDa. UCHL1 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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