

Active Recombinant Human UCHL5, GST-tagged

Cat. No. UCHL5-181H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human UCHL5 (amino acid residues 1-328), fused with N-terminal GST, was expressed in E.coli.
Species	Human
Source	E.coli
ProteinLength	1-328 a.a.
Description	The deubiquitylating activity of the proteasome has been attributed to the action of three deubiquitylases: UCHL5, USP14 and RPN11, which are all localised in the 19S regulatory particle. It has been reported that loss of both UCHL5 and USP14 leads to the accumulation of polyubiquitylated proteins and an inhibition of protein degradation without altering the structure or catalytic properties of the proteasome (D'Arcy et al., 2011).
Form	50 mM HEPES pH 7.5, 150 mM sodium chloride, 2 mM dithiothreitol, 10% glycerol
Bio-activity	Deubiquitylase Enzyme Assay: The activity of GST-UCHL5 was validated by determining the increase in fluorescence measured as a result of the enzyme catalysed cleavage of the fluorogenic substrate Ubiquitin-Rhodamine110-Glycine generating Ubiquitin and Rhodamine110-Glycine. Incubation of the substrate in the presence or absence of GST-UCHL5 was compared confirming the deubiquitylating activity of GST-UCHL5.

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Molecular Mass	~64 kDa
Purity	>88% by SDS-PAGE
Storage	12 months at -70°C. Avoid multiple freeze/thaw cycles.
Concentration	0.5 mg/ml

GENE INFORMATION

Gene Name	UCHL5 ubiquitin carboxyl-terminal hydrolase L5 [Homo sapiens]
Official Symbol	UCHL5
Synonyms	UCHL5; ubiquitin carboxyl-terminal hydrolase L5; ubiquitin carboxyl-terminal hydrolase isozyme L5; CGI 70; INO80 complex subunit R; INO80R; UCH37; ubiquitin thioesterase L5; ubiquitin C-terminal hydrolase UCH37; ubiquitin carboxyl-terminal esterase L5; CGI-70; UCH-L5;
Gene ID	51377
mRNA Refseq	NM_001199261
Protein Refseq	NP_001186190
MIM	610667
UniProt ID	Q9Y5K5
Chromosome Location	1q32

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Function

cysteine-type peptidase activity; endopeptidase inhibitor activity; omega peptidase activity; peptidase activity; proteasome binding; protein binding; ubiquitin thiolesterase activity; ubiquitin-specific protease activity;

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