

Active Recombinant Human USP5 protein, His-tagged

Cat. No. USP5-158H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human USP5(aa 1-858) fused with His tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	1-858 a.a.
Form	50 mM HEPES pH 7.5, 150 mM sodium chloride, 2 mM dithiothreitol, 10% glycerol
Bio-activity	Deubiquitylating Enzyme Assay: The activity of His-USP5 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 His-USP5 was compared confirming the deubiquitylating activity of His-USP5.
Molecular Mass	~98 kDa
Stability	12 months at -70 centigrade; aliquot as required
Concentration	0.5 mg/ml

GENE INFORMATION

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Gene Name	USP5 ubiquitin specific peptidase 5 (isopeptidase T) [Homo sapiens]
Official Symbol	USP5
Synonyms	USP5; ubiquitin specific peptidase 5 (isopeptidase T); ubiquitin specific protease 5 (isopeptidase T); ubiquitin carboxyl-terminal hydrolase 5; IsoT; isopeptidase T; ubiquitin isopeptidase T; ubiquitin thioesterase 5; deubiquitinating enzyme 5; ubiquitin thiolesterase 5; ubiquitin-specific-processing protease 5; ubiquitin-specific protease-5 (ubiquitin isopeptidase T); ISOT;
Gene ID	8078
mRNA Refseq	NM_001098536
Protein Refseq	NP_001092006
MIM	601447
UniProt ID	P45974
Chromosome Location	12p13
Function	cysteine-type endopeptidase activity; metal ion binding; omega peptidase activity; peptidase activity; protein binding; ubiquitin thiolesterase activity; zinc ion binding;