

Active Recombinant Human USP28 protein, His-tagged

Cat. No. USP28-23H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human USP28(Asp155-Ile707) fused with His tag at C-terminal was expressed in Insect cells.
Species	Human
Source	Insect Cells
ProteinLength	155-707 a.a.
Description	USP28 is a deubiquitinating enzyme of the C19 peptidase family that regulates MYC stability and DNA damage response checkpoints. USP28 regulates DNA repair by deubiquitinating and thereby stabilizing CLSPN - a protein that is ubiquitinated by the APC/C E3 Ubiquitin ligase in a cell-cycle dependent manner. USP28 interacts with isoform 1 of FBXW7 in the nucleoplasm, and regulates MYC degradation by counteracting its ubiquitination. Recently, a potential role in HIF-1 alpha -dependent processes such as angiogenesis and metastasis has been described for this deubiquitinase. USP28 has been demonstrated to cleave K6, K11, K48, and K63-linked poly-Ubiquitin chains. This recombinant protein contains a C-terminal 6-His tag.
Form	X mg/ml (X µM) in 50 mM Hepes pH 7.5, 100 mM NaCl, 1 mM TCEP
Bio-activity	Recombinant Human USP28 is a Ubiquitin-specific deconjugating enzyme. Reaction conditions will need to be optimized for each specific application. We recommend an initial Recombinant Human USP28 concentration of 10-500 nM.

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Molecular Mass	123 kDa
Purity	>90%, by SDS-PAGE under reducing conditions and visualized by Colloidal Coomassie® Blue stain
GENE INFORMATION	
Gene Name	USP28 ubiquitin specific peptidase 28 [Homo sapiens]
Official Symbol	USP28
Synonyms	USP28; ubiquitin specific peptidase 28; ubiquitin specific protease 28; ubiquitin carboxyl-terminal hydrolase 28; KIAA1515; ubiquitin thioesterase 28; deubiquitinating enzyme 28; ubiquitin thiolesterase 28; ubiquitin-specific-processing protease 28;
Gene ID	57646
mRNA Refseq	NM_020886
Protein Refseq	NP_065937
MIM	610748
UniProt ID	Q96RU2
Chromosome Location	11q23
Function	cysteine-type peptidase activity; peptidase activity; protein binding; ubiquitin thiolesterase activity; ubiquitin thiolesterase activity; ubiquitin-specific protease activity;

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