

Active Recombinant Human USP4 protein, His-tagged

Cat. No. USP4-42H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human USP4 fused with His tag at C-terminal was expressed in Insect cells.
Species	Human
Source	Insect Cells
Description	Ubiquitin carboxyl-terminal hydrolase 4 (USP4) is a specialized cysteine protease with a predicted molecular weight of 109 kDa. USP4 is a member of the peptidase C19 family and the human protein shares 91% amino acid sequence identity with its mouse ortholog. USP4 is ubiquitinated on multiple sites, and deubiquitination of these sites requires USP4 catalytic activity. USP4 interacts with CtIP protein and the MRN (MRE11-RAD50-NBS1) complex to promote DNA double-strand break repair. Other reported USP4 targets include HDAC2, ADORA2A, PDPK1 and TRIM21. 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, 10% (v/v) Glycerol
Bio-activity	Reaction conditions will need to be optimized for each specific application. We recommend an initial recombinant human USP4 concentration of 10-100 nM when using Ubiquitin-AMC or Ubiquitin-Rh110 substrates.
Molecular Mass	109 kDa

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Endotoxin	<1.0 EU per 1 µg of the protein by the LAL method.
Purity	>95%, by SDS-PAGE under reducing conditions and visualized by Colloidal Coomassie® Blue stain.
Storage	Avoid repeated freeze-thaw cycles. 12 months from date of receipt, -70 centigrade as supplied. 3 months, -70 centigrade under sterile conditions after opening.

GENE INFORMATION

Gene Name	USP4 ubiquitin specific peptidase 4 (proto-oncogene) [Homo sapiens]
Official Symbol	USP4
Synonyms	USP4; ubiquitin specific peptidase 4 (proto-oncogene); ubiquitin specific protease 4 (proto oncogene) , UNP; ubiquitin carboxyl-terminal hydrolase 4; Unph; ubiquitin thioesterase 4; deubiquitinating enzyme 4; ubiquitin thiolesterase 4; ubiquitous nuclear protein homolog; ubiquitin carboxyl-terminal esterase 4; ubiquitin-specific processing protease 4; ubiquitin specific protease 4 (proto-oncogene); UNP; MGC149848; MGC149849;
Gene ID	7375
mRNA Refseq	NM_001251877
Protein Refseq	NP_001238806
MIM	603486
UniProt ID	Q13107

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Chromosome	3p21.3
Location	