

Active Recombinant Human USP22 protein, His-tagged

Cat. No. USP22-12H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human USP22 protein with his tag at N-terminal was expressed in Sf 21 (baculovirus).
Species	Human
Source	Insect Cells
ProteinLength	1-525 aa
Description	Ubiquitin specific peptidase 22 is a protein that in humans is encoded by the USP22 gene on chromosome 17. USP22 is known to function as a histone deubiquitinating component of the transcription regulatory histone acetylation (HAT) complex SAGA.
Bio-activity	Recombinant human USP22 is a Ubiquitin-specific deconjugating enzyme. Reaction conditions will need to be optimized for each specific application. We recommend an initial USP22 concentration of 20-100 nM when using Ubiquitin-AMC or Ubiquitin-Rhodamine (U-550, U-555) substrates.
Molecular Mass	59 kDa
Purity	>95%, by SDS-PAGE under reducing conditions
Notes	Recombinant USP22 is not active toward poly-Ubiquitin chains, Ubiquitinated histones and other Ubiquitinated protein substrates in the absence of adapter proteins such as ATXN7L or ENY2.

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Storage	12 months from date of receipt, -70 centigrade as supplied.
	3 months, -70 centigrade under sterile conditions after opening. Avoid repeated freeze-thaw cycles.

GENE INFORMATION

Gene Name	USP22 ubiquitin specific peptidase 22 [Homo sapiens (human)]
Official Symbol	USP22
Synonyms	Deubiquitinating enzyme 22; EC 3.1.2.15; EC 3.4.19.12; KIAA1063ubiquitin carboxyl-terminal hydrolase 22; KIAA1064; ubiquitin specific peptidase 22; ubiquitin specific peptidase 3-like; ubiquitin specific protease 22; Ubiquitin Thioesterase 22; Ubiquitin thiolesterase 22; ubiquitin-specific processing protease 22; Ubiquitin-specific-processing protease 22; USP22; USP3L
Gene ID	23326
mRNA Refseq	NM_015276
Protein Refseq	NP_056091
MIM	612116
UniProt ID	Q9UPT9
Chromosome Location	17p11.2
Pathway	Chromatin modifying enzymes, organism-specific biosystem (from REACTOME); Chromatin organization, organism-specific biosystem (from REACTOME);

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Deubiquitination, organism-specific biosystem (from REACTOME)

Function

contributes_to H4 histone acetyltransferase activity; enzyme binding; ligand-dependent nuclear receptor transcription coactivator activity; protein binding

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