

Datasheet for ABIN7198568

USP7 Protein

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Overview

Quantity:	100 µg
Target:	USP7
Origin:	Human
Source:	Baculovirus infected Insect Cells
Protein Type:	Recombinant

Product Details

Purpose:	Recombinant Human USP7/HAUSP Protein (aa 208-560)
Sequence:	Lys 208-Glu 560
Characteristics:	A DNA sequence encoding the amino acid sequence (Lys 208-Glu 560) of human USP7 (NP_003461.2) expressed and purified, with two additional aa (Gly & Pro) at the N-terminus.
Purity:	> 98 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.

Target Details

Target:	USP7
Alternative Name:	USP7/HAUSP (USP7 Products)
Background:	<p>Background: Ubiquitin carboxyl-terminal hydrolase 7, also known as Ubiquitin thioesterase 7, Herpesvirus-associated ubiquitin-specific protease, Ubiquitin-specific-processing protease 7, USP7 and HAUSP, is a widely expressed protein which belongs to the peptidase C19 family.</p> <p>USP7 is a member of the family of deubiquitinating enzymes. It is involved in the regulation of</p>

Target Details

stress response pathways, epigenetic silencing and the progress of infections by DNA viruses. USP7 is a protein with a cysteine peptidase core, N- and C-terminal domains required for protein-protein interactions. USP7 contributes to epigenetic silencing of homeotic genes by Polycomb (Pc). USP7 cleaves ubiquitin fusion protein substrates. It deubiquitinates TP53/p53 and MDM2 and strongly stabilizes TP53 even in the presence of excess MDM2. USP7 also induces TP53-dependent cell growth repression and apoptosis. USP7 has key roles in the p53 pathway whereby it stabilizes both p53 and MDM2. Herpes simplex virus type 1 (HSV-1) regulatory protein ICP0 stimulates lytic infection and the reactivation of quiescent viral genomes. ICP0 interacts very strongly with USP7. USP7-mediated stabilization of ICP0 is dominant over ICP0-induced degradation of USP7 during productive HSV-1 infection. The biological significance of the ICP0-USP7 interaction may be most pronounced in natural infection situations, in which limited amounts of ICP0 are expressed.

Synonym: HAUSP;TEF1

Molecular Weight: 41 kDa

NCBI Accession: [NP_003461](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Please refer to the printed manual for detailed information.

Buffer: Lyophilized from sterile 50 mM Tris, 100 mM NaCl, 0.5 mM PMSF, pH 8.0

Storage: 4 °C, -20 °C, -80 °C

Storage Comment: Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.