

MATERIAL DATA SHEET

His₆-USP7_{CD} (HAUSP catalytic domain), *human recombinant* Cat. # E-518

USP7 (Herpes-Associated Ubiquitin Specific Protease) is a nuclear protein that was initially identified as a novel p53-interacting protein. The enzyme deubiquitinates p53 thus stabilizing the levels of this key tumor suppressor, and inducing p53-dependent cell growth repression and apoptosis. USP7 also indirectly affects p53 stability by deubiquitinating HDMX, a regulator of HDM2. Full-length USP7 (1102 amino acids) contains an N-terminal p53 binding domain and 2 highly conserved USP active site domains. The C-terminal domain interacts with HSV-1 protein ICP0. This enzyme is able to cleave model substrates including linear Ub fusions, poly-ubiquitinated EBNA1 and poly-ubiquitinated p53. This recombinant protein has an N-terminal his tag & residues 213-548 representing the catalytic domain (CD) of USP7. Accession # NP_003461.

Product Information

Quantity:	50 µg
Stock:	X mg/ml (X µM) in 50 mM HEPES pH 8.0, 100 mM NaCl, 10% glycerol, 0.5 mM EDTA, 1mM DTT. Actual concentration varies with specific Lot #.
MW:	42 kDa
Purity:	> 95% by SDS-PAGE

Use & Storage

Use:	Typical enzyme concentration for use <i>in vitro</i> ranges from 1-5 µM depending on conditions and substrate.
Storage:	Store at -80°C. Avoid multiple freeze/thaw cycles.

Literature

References:	Cheon K.W and Baek K.H. (2006) <u>Intl.J.Oncol.</u> 16 :566-577
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	Hu M., <i>et al</i> (2002) <u>Cell</u> 111 :1041-1054
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