MATERIAL DATA SHEET

His⁶-USP1/UAF1 complex, human recombinant
Cat. # E-568

USP1 (Ubiquitin-Specific-processing Protease 1, also known as Ubiquitin carboxyl-terminal hydrolase 1) is a deubiquitinating enzyme of the C19 peptidase family and functions as a negative regulator of the Fanconi Anemia pathway. Reported substrates of USP1 include monoubiquitinated FANCD2 and monoubiquitinated PCNA. USP1 plays important roles in DNA damage responses and cancer-related processes, and inhibiting the function of this deubiquitinase sensitizes some cancer cells to chemotherapy. By itself, USP1 is nearly completely inactive and requires a protein binding partner, UAF1 (USP1-Associated Factor 1, also known as WD Repeat-containing protein 48 or WDR48) to stimulate its deubiquitinase activity. In addition to the naturally occurring substrates listed above, the USP1/UAF1 complex has been demonstrated to cleave K6, K33, and K63-linked polyubiquitin chains. Recombinant USP1 protein contains a C-terminal 6-His tag, and glycine-to-alanine substitutions at positions 670 and 671 (UniProt O94782 numbering). Recombinant UAF1 protein also contains a C-terminal 6-His tag. The assembled complex contains 25 µg each of USP1 and UAF1, resulting in a 1:1.2 stoichiometry.

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### Literature

<table>
<thead>
<tr>
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<th>Details</th>
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Rev: 05/27/2014