

## Recombinant Human USP16 Protein, His-tagged

**Cat. No.** USP16-362H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Human USP16 Protein is produced by Insect cells expression system. This protein is fused with a His tag.                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Source</b>           | Insect Cells                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Description</b>      | USP16 is an active deubiquitinating enzyme (DUB) encoded on chromosome 21, trisomy of which causes Down's syndrome (DS). USP16 is a phosphoprotein, phosphorylation of USP16 controls its cellular localization, but no effect on its DUB activity. USP16 deubiquitinates histone 2A (H2A), through which USP16 might regulate gene expression and cell cycle progression. Increased USP16 protein levels in people with DS might contribute to the development of certain phenotypes of DS. |
| <b>Form</b>             | 20 mM Tris, 150 mM NaCl, 2 mM $\beta$ ME, 10% Glycerol                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Molecular Mass</b>   | 93.5 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Purity</b>           | > 90 % by SDS-PAGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Storage</b>          | Store at -80 centigrade; avoid multiple freeze-thaw cycles.                                                                                                                                                                                                                                                                                                                                                                                                                                  |

### GENE INFORMATION

|                 |             |
|-----------------|-------------|
| <b>Synonyms</b> | UBP-M; UBPM |
|-----------------|-------------|

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**USP16-362H, 1**

A. DUB activity assay: 15 nM USP16 + 500 nM Ub-Rhodamine 110. Rhodamine 110 fluorescence was monitored by a plate reader with excitation/emission wavelengths at 480/528 nm, respectively.

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