

## Active Recombinant Human USP15 Protein, His-tagged

**Cat. No.** USP15-358H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Human USP15 Protein is produced by Spodoptera frugiperda, Sf 21 (baculovirus) expression system. This protein is fused with a His tag at the C-terminal.                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Source</b>           | S.frugiperda                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Description</b>      | Ubiquitin carboxyl-terminal hydrolase 15 (USP15) is a specialized cysteine protease with a predicted molecular weight of 112 kDa. USP15 is a member of the peptidase C19 family and the human protein shares 98% amino acid sequence identity with its mouse ortholog. USP15 is a regulator of the TGF beta signaling pathway, where it may promote signaling strength by deubiquitination of SMAD proteins and/or the TGF beta R1. Other reported targets of USP15 include histone H2B, NF kappa B1 alpha, MDM2 and human papillomavirus type 16 E6 protein. |
| <b>Form</b>             | X mg/ml (XμM) in 50 mM HEPES pH 7.5, 100 mM NaCl, 1 mM TCEP, 10% (v/v) Glycerol                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Bio-activity</b>     | Reaction conditions will need to be optimized for each specific application. We recommend an initial recombinant human USP15 concentration of 5-20 nM when using Ubiquitin-AMC or Ubiquitin-Rh110 substrates.                                                                                                                                                                                                                                                                                                                                                 |
| <b>Molecular Mass</b>   | 113 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Purity</b>           | >85%, by SDS-PAGE under reducing conditions and visualized by Colloidal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

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Coomassie® Blue stain.

**Storage**

Use a manual defrost freezer and avoid repeated freeze-thaw cycles.  
12 months from date of receipt, -70 centigrade as supplied.  
3 months, -70 centigrade under sterile conditions after opening.

## GENE INFORMATION

|                 |                                                                           |
|-----------------|---------------------------------------------------------------------------|
| Gene Name       | USP15 ubiquitin specific peptidase 15 [ Homo sapiens ]                    |
| Official Symbol | USP15                                                                     |
| Synonyms        | USP15; KIAA0529; UNPH4; UNPH-2; FLJ55073; MGC74854; MGC131982; MGC149838; |
| Gene ID         | 9958                                                                      |
| mRNA Refseq     | NM_001252078                                                              |
| Protein Refseq  | NP_001239007                                                              |
| MIM             | 604731                                                                    |
| UniProt ID      | Q9Y4E8                                                                    |

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