

## Ulp1 peptidase

Cat. No. EXWM-4244

Lot. No. (See product label)

### Introduction

#### Description

The enzyme from *Saccharomyces cerevisiae* can also recognize small ubiquitin-like modifier 1 (SUMO-1) from human as a substrate in both SUMO-processing ( $\alpha$ -linked peptide bonds) and SUMO-deconjugation ( $\epsilon$ -linked peptide bonds) reactions. Ulp1 has several functions, including an essential role in chromosomal segregation and progression of the cell cycle through the G2/M phase of the cell cycle. Belongs in peptidase family C48.

#### Synonyms

Smt3-protein conjugate proteinase; Ubl-specific protease 1; Ulp1; Ulp1 endopeptidase; Ulp1 protease

### Product Information

#### Form

Liquid or lyophilized powder

#### EC Number

EC 3.4.22.68

#### Reaction

Hydrolysis of the  $\alpha$ -linked peptide bond in the sequence Gly-Gly-Ala-Thr-Tyr at the C-terminal end of the small ubiquitin-like modifier (SUMO) propeptide, Smt3, leading to the mature form of the protein. A second reaction involves the cleavage of an  $\epsilon$ -linked peptide bond between the C-terminal glycine of the mature SUMO and the lysine  $\epsilon$ -amino group of the target protein

#### Notes

This item requires custom production and lead time is between 5-9 weeks. We can custom produce according to your specifications.

### Storage and Shipping Information

#### Storage

Store it at +4 °C for short term. For long term storage, store it at -20 °C~-80 °C.