

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 (α -linked peptide bonds) and SUMO-deconjugation (ϵ -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 α -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 ϵ -linked peptide bond between the C-terminal glycine of the mature SUMO and the lysine ϵ -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.