

Selectin Biosciences Inc.

Ubiquitin Hydrolase

Yeast Recombinant

Ubiquitin Hydrolase (EC:3.4.19.12) cleaves carboxy terminal protein fusions to the 76 amino-acid ubiquitin monomer. Efficient cleavage require the fusion peptide be less than 100 amino acids and that proline is not the first amino acid of the fusion.

Ubiquitin Hydrolase is produced in *E. coli* from a *Saccharomyces cereviase* clone..

Product Code: YUH-1

Specifications

Activity: ~ 2 U/mg, ~ 10 U/mL.

Storage: Store at 4°C.

Formulation: The enzyme is provided as a sterile solution in 20 mM Tris-HCl pH 7.5, 0.4 M NaCl, 1 uM β -mercaptoethanol.

Stability: Stable at least 12 months when stored properly. Several days exposure to ambient temperatures will not reduce activity.

Product Description

Molecular weight: 26,000 Daltons.

Purity: For the protease assay, 10 μ g of denatured BSA is incubated for 24 hr with 2 μ l of enzyme. Analysis of the BSA band after SDS-PAGE should show no evidence of degradation.

Specificity: Cleaves fusion proteins of less than 100 aminoacids from the carboxy terminus of ubiquitin monomer fusion protein as long as proline is not the first residue.

Assay

One unit of Ubiquitin Hydrolase will cleave one micromole of ubiquitin-insulin A peptide per minute at pH 8.5 and 27C. Cleavage is determined by SDS polyacrylamide gel electrophoresis.

Suggestions for use:

Incubate cleavage protein with Ubiquitin Hydrolase in 50 mM Tris pH 7.5 at 37C. .

References

Miller H. et al. (1989) Cloning and Expression of a Yeast Ubiquitin-Protein Cleaving Activity in *Escherichia Coli* **Biotechnology** 7:698-704

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This product is intended for in vitro research only.

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