

Kex2 Protease from Saccharomyces cerevisiae, Recombinant

Cat. No. NATE-1891

Lot. No. (See product label)

Introduction

Description Kex2 is a Ca2+-dependent serine protease and cleaves at C-terminal site of Lys-

Arg, Arg-Arg, Pro-Arg in pro- α -factor and killer-toxin precursors maturing, it was discovered in Saccharomyces cerevisiae. But Kex2 can't recognize and cut a single basic amino acid, such as carboxyl end peptide bond of arginine and lysine. Recombinant Kex2 is a genetically engineered protein expressed in Pichia pastoris and purified by high pressure liquid chromatography. The activity of Kex2 is not affected by the conventional serine protease inhibitors such as PMSF, TPCK, TLCK

inhibition.

Synonyms KEX2 protease; KEX2; protease; kexin; EC 3.4.21.61

Product Information

Species Saccharomyces cerevisiae

Source Pichia pastoris

Form White lyophilized

EC Number EC 3.4.21.61

Molecular Weight 67±6.7 kD

Activity >10 unit/mg protein

pH Stability 5.0-6.0

Optimum pH 9

Optimum temperature 37 °C

Buffer Recommend storage buffer: pH5.0-5.5 20mM NaAc-HAc buffer and 2mM Ca2+.

Recommend reaction buffer: pH 7.0-9.0 50mM Tris-HCl or HEPES, 5mM Ca2+ . To prepare 1-10mg/ml Kex2 solution with 20mM NaAc-HAc (pH 5.2) and 2mM Ca2+ for a stored solution, and diluted with reaction buffer shch as pH 7.0-9.0 50mM Tris-HCl or HEPES, 5mM Ca2+. If used after dissolved immediately, with the reaction buffer

pH 7.0-9.0 50mM Tris-HCl or HEPES, 5mM Ca2+ to dissolve directly.

Unit Definition

One unit of Kex2 activity will release 1µmol 4-nitroaniline per minute in a reaction

volume of 3.0 ml at pH8.0 and 25°C with Boc-QRR-pNA (Boc-Gln-Arg-Arg-pNA) as

the substrate.

Storage and Shipping Information

Storage Recommended storage temperature: 2°C-8°C. Transport condition: blue ice to keep

the environment cool. It should be stored in 20mM NaAc-HAc (pH 5.0-5.5) and 2mM

Ca2+. It is stable after 5 cycles freezing and thawing.

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