

Active Recombinant *Saccharomyces cerevisiae* KEX2 Protein

Cat. No. KEX2-01S **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Kex2 Protease is a genetically engineered protein expressed in <i>Pichia pastoris</i> . The amino acid sequence of recombinant Kex2 Protease is identical to <i>Saccharomyces cerevisiae</i> Kex2
Species	<i>S.cerevisiae</i>
Source	Yeast
Description	Processing of precursors of alpha-factors and killer toxin.
Form	Lyophilized powder
Bio-activity	≥ 10.0 units/mg protein
Molecular Mass	67.0±6.7 kDa
Unit Definition	One unit of Kex2 activity will release 1 μmol 4-nitroaniline per minute in a reaction volume of 3.0 mL at pH 8.0 and 25 centigrade with Boc-QRR-pNA (Boc-Gln-Arg-Arg-pNA) as the substrate.
Usage	Recommended reaction buffer: pH 7.0-9.0, 50 mM Tris-HCl, 2 mM Ca ²⁺ or HEPES, 5 mM Ca ²⁺ . If it is not used immediately after dissolving, it is recommended to dissolve the powder with 20 mM (pH 5.2) NaAc-HAc and 2 mM Ca ²⁺ buffer to make the final concentration is about 1-10 mg/ml, then make suitable packing as your requirement and store at -20 centigrade. Reaction was carried out, using pH 7.0-9.0, 50 mM Tris-

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HCl, 2 mM Ca²⁺ or HEPES, 5 mM Ca²⁺ buffer.

Note: The optimum reaction pH of the enzyme is pH 9.0 and the optimum stable pH is 5.0-6.0.

Stability

Stability of storage: Recombinant kex2 protease should be stored under 2-8 centigrade in sealed container. It is stable within 12 months. After dissolved with 20mM NaAc-HAc, pH 5.2, 2mM Ca²⁺, it should be stored under -20 centigrade. Stability of transport: The product is stable by blue ice insulation transport.

Storage

2-8 centigrade, sealed, dark

GENE INFORMATION

Gene Name

KEX2 kexin KEX2 [*Saccharomyces cerevisiae* S288C]

Official Symbol

KEX2

Synonyms

KEX2; kexin KEX2; QDS1; SRB1; VMA45; kexin KEX2; EC 3.4.21.61; Kexin, a subtilisin-like protease (proprotein convertase); a calcium-dependent serine protease involved in the activation of proproteins of the secretory pathway

Gene ID

855483

mRNA Refseq

NM_001183076

Protein Refseq

NP_014161

UniProt ID

P13134

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