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 Pichia pastoris. The amino acid sequence of recombinant Kex2 Protease is identical to Saccharomyces cerevisiae Kex2
Species	S.cerevisiae
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 Ca2+ or HEPES, 5 mM Ca2+. 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 Ca2+ 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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