Yeast Kex-2 (BTI-Tn-5B1-4) Hi-5 Insect cells*

Product Data Sheet

Type: Recombinant
Source: (BTI-Tn-5B1-4) Hi-5 Insect cells*
Species:
Other names: Endoproteinase Lys/Arg-Arg

Cat. No.:	
RBG40002050	(50 µg)
RBG40002250	(250 µg)
RBG40002500	(500 µg)

Description

Proteases (also called Proteolytic Enzymes, Peptidases, or Proteinases) are enzymes that hydrolyze the amide bonds within proteins or peptides. Most proteases act in a specific manner, hydrolyzing bonds at, or adjacent to, specific residues, or a specific sequence of residues contained within the substrate protein or peptide. Proteases play an important role in most diseases and biological processes, including prenatal and postnatal development, reproduction, signal transduction, immune response, various autoimmune and degenerative diseases, and cancer. They are also an important research tool, as they are frequently used in the analysis and production of proteins. Kex-2 cleaves at the carboxyl end of the recognition sequences Arg-Arg/X and Lys-Arg/X. Recombinant Yeast Kex-2 is a 60.4 kDa protease consisting of 558 amino acid residues.

Research topic

Others

Amino Acid Sequence

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LPVPAPPMDS SLLPVKEAED KLSINDPLFE RQWHLVNPSF PGSDINVLDL WYNNITGAGV VAAIVDDGLD YENEDLKDNF
CAEGSWDFND NTNLPKPRLS DDYHGTRCAG EIAAKKGNNF CGVGVGYNAK ISGIRILSGD ITTEDEAASL IYGLDVNDIY
SCSWGPADDG RHLQGPSDLV KKALVKGVTE GRDSKGAIYV FASGNGGTRG DNCNYDGYTN SIYSITIGAI DHKDLHPPYS
EGCSAVMAVT YSSGSGEYIH SSDINGRCSN SHGGTSAAAP LAAGVYTLLL EANPNLTWRD VQYLSILSAV GLEKNADGDW
RDSAMGKKYS HRYGFGKIDA HKLIEMSKTW ENVNAQTWFY LPTLYVSQST NSTEETLESV ITISEKSLQD ANFKRIEHVT
VTVDIDTEIR GTTTVDLISP AGIISNLGVV RPRDVSSEGF KDWTFMSVAH WGENGVGDWK IKVKTTENGH RIDFHSWRLK
LFGESIDSSK TETFVFGNDK EEVEPAATES TVSQYSASST SISISATSTS SISIGVETSA IPQTTTASTD PDSDPNTP
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Source

(BTI-Tn-5B1-4) Hi-5 Insect cells*

Purity

95%

Biological Activity

Recombinant Kex-2 from High-5 insect cells contains the same specific activity and recognition sequence specificity as yeast derived KEX-2. 1 milligram of recombinant KEX-2 contains activity equivalent to at least 40 units of yeast derived KEX-2. Cleaves at the carboxyl side of K/R-R.

Endotoxin

Endotoxin level is <0.1 ng/µg of protein (<1EU/µg).

Reconstitution

Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 0.1-1.0 mg/ml. Do not vortex. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (example 0.1% BSA) and store in working aliquots at -20°C to -80°C.

Storage, Stability/Shelf Life

-20°C

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