

Product datasheet

Recombinant *S. cerevisiae* KEX2 protease protein (Active) ab96554

1 References

Description

Product name	Recombinant <i>S. cerevisiae</i> KEX2 protease protein (Active)
Biological activity	<p>ab96554 from High-5 insect cells contains the same specific activity and recognition sequence specificity as yeast derived KEX2.</p> <p>1 milligram of recombinant KEX2 contains activity equivalent to at least 40 units of yeast derived KEX2.</p> <p>Cleaves at the carboxyl side of K/R-R.</p>
Purity	<p>> 95 % SDS-PAGE.</p> <p>>= 95% HPLC analyses.</p>
Endotoxin level	< 1.000 Eu/μg
Expression system	BTI-TN-5B1-4 cells
Accession	<u>P13134</u>
Protein length	Protein fragment
Animal free	No
Nature	Recombinant
Species	<i>Saccharomyces cerevisiae</i>
Sequence	<p>LPVPAPPMDS SLLPVKEAED KLSINDPLFE</p> <p>RQWHLVNPSF PGSDINVLDL WYNNITGAGV</p> <p>VAANDDGLD YENEDLKDNF CAEGSWDFND</p> <p>NTNLPKPRLS DDYHGTRCAG EIAAKKGNNF</p> <p>CGVGVGYNAK ISGIRILSGD ITTEDEAASL IYGLDVNDIY</p> <p>SCSWGPADDG RHLQGPSDLV KKALVKGVTE</p> <p>GRDSKGAIYV FASGNGGTRG DNCNYDGYTN SIYSITIGAI</p> <p>DHKDLHPPYS EGCSAVMAVT YSSGSGEYIH</p> <p>SSDINGRCSN SHGGTSAAAP LAAGVYTLLL</p> <p>EANPNLTWRD VQYLSILSAV GLEKNADGDW</p> <p>RDSAMGKKYS HRYGFGKIDA HKLIEMSKTW</p> <p>ENVNAQTWFY LPTLYVSQST NSTEETLESV ITISEKSLQD</p> <p>ANFKRIEHTV VTVDIDTEIR GTTTVDLISP AGIISNLGVV</p> <p>RPRDVSSEGF KDWTFMSVAH WGENGVGDWK</p> <p>IKVKTTE NGH RIDFHSWRLK LFGESIDSSK TETFVFGNDK</p> <p>EEVEPAATES TVSQYSASST SISISATSTS SISIGVETSA</p>

Predicted molecular weight	60 kDa
Amino acids	110 to 667
Description	Recombinant <i>S. cerevisiae</i> KEX2 protease protein (Active)

Specifications

Our **Abpromise guarantee** covers the use of **ab96554** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	HPLC
	SDS-PAGE
	Functional Studies
Form	Lyophilized

Preparation and Storage

Stability and Storage	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
	Constituents: 0.0555% Calcium chloride, 0.082% Sodium acetate
	This product is an active protein and may elicit a biological response in vivo, handle with caution.
Reconstitution	Reconstitute in water to 0.1-1.0 mg/ml. Store at 2°C to 8°C for up to 1 week or prepare for extended storage. After initial reconstitution, further dilute in a buffer containing a carrier protein or stabilizer (e.g. 0.1% BSA). Store working aliquots at -20°C to -80°C

General Info

Relevance	Kex2 in the yeast <i>Saccharomyces cerevisiae</i> is a transmembrane, Ca ²⁺ -dependent serine protease of the subtilisin-like pro-protein convertase (SPC) family with specificity for cleavage after paired basic amino acids. At steady state, Kex2 is predominantly localized in late Golgi compartments and initiates the proteolytic maturation of pro-protein precursors that transit the distal secretory pathway. However, Kex2 localization is not static, and its itinerary apparently involves transiting out of the late Golgi and cycling back from post-Golgi endosomal compartments during its lifetime.
Cellular localization	Golgi apparatus; trans-Golgi network; trans-Golgi network membrane; single-pass type I membrane protein.

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