Expansin-yoaJ Recombinant Protein | yoaJ recombinant protein

Recombinant Bacillus subtilis Expansin-yoaJ

CATALOG #	HOST
AAA115450	**E Coli or Yeast or Baculovirus or Mammalian Cell**

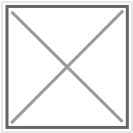
PRODUCT SYNONYMS

Expansin-yoaJ; Recombinant Bacillus subtilis Expansin-yoaJ; EXLX1; yoaJ recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE.
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Sequence Positions	26-232aa; Full Length
Sequence	AYDDLHEGYA TYTGSGYSGG AFLLDPIPSD MEITAINPAD LNYGGVKAAL AGSYLEVEGP KGKTTVYVTD LYPEGARGAL DLSPNAFRKI GNMKDGKINI KWRVVKAPIT GNFTYRIKEG SSRWWAAIQV RNHKYPVMKM EYEKDGKWIN MEKMDYNHFV STNLGTGSLK VRMTDIRGKV VKDTIPKLPE SGTSKAYTVP GHVQFPE
Sequence Length	232
Preparation and Storage	Store at -20 degree C, for extended storage, conserve at -20 degree C or -80 degree C.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for yoaJ recombinant protein	May promote colonization of plant roots. May cause loosening and extension of plant cell walls by disrupting non-covalent bonding between cellulose microfibrils and matrix glucans. Has very low expansin activity (in vitro). No enzymatic activity has been found. Binds to peptidoglycan and to plant cell walls.

References	Sequence analysis of the Bacillus subtilis chromosome region between the terC and odhAB loci cloned in a yeast artificial chromosome.Lapidus A., Galleron N., Sorokin A., Ehrlich S.D.The complete genome sequence of the Gram-positive bacterium Bacillus subtilis.Kunst F., Ogasawara N., Moszer I., Albertini A.M., Alloni G., Azevedo V., Bertero M.G., Bessieres P., Bolotin A., Borchert S., Borriss R., Boursier L., Brans A., Braun M., Brignell S.C., Bron S., Brouillet S., Bruschi C.V., Caldwell B., Capuano V., Carter N.M., Choi S.-K., Codani J.-J., Connerton I.F., Cummings N.J., Daniel R.A., Denizot F., Devine K.M., Duesterhoeft A., Ehrlich S.D., Emmerson P.T., Entian K.-D., Errington J., Fabret C., Ferrari E., Foulger D., Fritz C., Fujita M., Fujita Y., Fuma S., Galizzi A., Galleron N., Ghim S.-Y., Glaser P., Goffeau A., Golightly E.J., Grandi G., Guiseppi G., Guy B.J., Haga K., Haiech J., Harwood C.R., Henaut A., Hilbert H., Holsappel S., Hosono S., Hullo M.-F., Itaya M., Jones L.-M., Joris B., Karamata D., Kasahara Y., Klaerr-Blanchard M., Klein C., Kobayashi Y., Koetter P., Koningstein G., Krogh S., Kumano M., Kurita K., Lapidus A., Lardinois S., Lauber J., Lazarevic V., Lee S.-M., Levine A., Liu H., Masuda S., Mauel C., Medigue C., Medina N., Mellado R.P., Mizuno M., Moestl D., Nakai S., Noback M., Noone D., O'Reilly M., Ogawa K., Ogiwara A., Oudega B., Park S.-H., Parro V., Pohl T.M., Portetelle D., Porwollik S., Prescott A.M., Presecan E., Pujic P., Purnelle B., Rapoport G., Rey M., Reynolds S., Rieger M., Rivolta C., Rocha E., Roche B., Rose M., Sadaie Y., Sato T., Scanlan E., Schleich S., Schroeter R., Scoffone F., Sekiguchi J., Sekowska A., Seror S.J., Serror P., Shin B.-S., Soldo B., Sorokin A., Tacconi E., Takagi T., Takahashi H., Takemaru K., Takeuchi M., Tamakoshi A., Tanaka T., Terpstra P., Tognoni A., Tosato V., Uchiyama S., Vandenbol M., Vannier F., Vassarotti A., Viari A., Wambutt R., Wedler E., Wedler H., Weitzenegger T., Winters P., Wipat A., Yamamoto H., Yamane K., Yasumoto K., Yata K., Yoshida K., Yoshikawa H.-F., Zumstein E., Yoshikawa H., Danchin A.Nature 390:249-256(1997) Crystal structure and activity of Bacillus subtilis YoaJ (EXLX1), a bacterial expansin that promotes root colonization.Kerff F., Amoroso A., Herman R., Sauvage E., Petrella S., Filee P., Charlier P., Joris B., Tabuchi A., Nikolaidis N., Cosgrove D.J.Proc. Natl. Acad. Sci. U.S.A. 105:16876-16881(2008)

NCBI AND UNIPROT INFORMATION

NCBI GI #	16078923
NCBI GeneID	940108
NCBI Accession #	NP_389744.1
NCBI GenBank Nucleotide #	NC_000964.3
UniProt Accession #	O34918; Q796F6
Molecular Weight	24.9 kDa
NCBI Official Full Name	expansin-YoaJ
NCBI Official Symbol	exlX
NCBI Protein Information	expansin-YoaJ
UniProt Protein Name	Expansin-YoaJ
UniProt Gene Name	**yoaJ**
UniProt Entry Name	YOAJ_BACSU

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: https://stage.aaabiotech.com/yoaj-recombinant-protein-e-coli-or-yeast-or-baculovirus-or-mammalian-cell/115450