

Protease 7 (ompT) Recombinant Protein | ompT recombinant protein

Recombinant Escherichia coli Protease 7 (ompT)

CATALOG # AAA18640	HOST E Coli or Yeast or Baculovirus or Mammalian Cell
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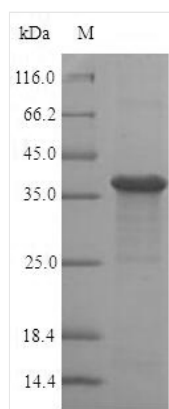
PRODUCT SYNONYMS

Protease 7 (ompT); Recombinant Escherichia coli Protease 7 (ompT); Omptin; Outer membrane protein 3B; Protease A; Protease VII; ompT 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	21-317aa; Full-Length of the Mature Protein
Sequence	STETLSFTPD NINADISLGT LSGKTKERVY LAEEGGRKVS QLDWKFNNAA IIKGAINWDL MPQISIGAAG WTTLGSRGGN MVDQDWMDS NP GTWTDESR HPDTQLNYAN EFDLNIKGWL LNEPNYRLGL MAGYQESRYS FTARGGSYIY SSEEGRDDI GSFPNGERAI GYKQRFKMPY IGLTGSYRYE DFELGGTFKY SGWVESSDND EHYDPGKRIT YRSKVKDQNY YSVAVNAGYY VTPNAKVYVE GAWNRVTNKK GNTSLYDHNN NTSYDYSKNGA GIENYNFITT AGLKYTF
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 ompT recombinant protein	Protease that can cleave T7 RNA polymerase, ferric enterobactin receptor protein (FEP), antimicrobial peptide protamine and other proteins. This protease has a specificity for paired basic residues.
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References	Complete nucleotide sequence and deduced amino acid sequence of the ompT gene of Escherichia coli K-12. Grodberg J., Lundrigan M.D., Toledo D.L., Mangel W.F., Dunn J.J. <i>Nucleic Acids Res.</i> 16:1209-1209(1988) Purification, characterization, and primary structure of Escherichia coli protease VII with specificity for paired basic residues identity of protease VII and OmpT. Sugimura K., Nisihara T.J. <i>Bacteriol.</i> 170:5625-5632(1988) Sequence of minutes 4-25 of Escherichia coli. Chung E., Allen E., Araujo R., Aparicio A.M., Davis K., Duncan M., Federspiel N., Hyman R., Kalman S., Komp C., Kurdi O., Lew H., Lin D., Namath A., Oefner P., Roberts D., Schramm S., Davis R.W. The complete genome sequence of Escherichia coli K-12. Blattner F.R., Plunkett G. III, Bloch C.A., Perna N.T., Burland V., Riley M., Collado-Vides J., Glasner J.D., Rode C.K., Mayhew G.F., Gregor J., Davis N.W., Kirkpatrick H.A., Goeden M.A., Rose D.J., Mau B., Shao Y. <i>Science</i> 277:1453-1462(1997) Highly accurate genome sequences of Escherichia coli K-12 strains MG1655 and W3110. Hayashi K., Morooka N., Yamamoto Y., Fujita K., Isono K., Choi S., Ohtsubo E., Baba T., Wanner B.L., Mori H., Horiuchi T. <i>Mol. Syst. Biol.</i> 2:E1-E5(2006) A 718-kb DNA sequence of the Escherichia coli K-12 genome corresponding to the 12.7-28.0 min region on the linkage map. Oshima T., Aiba H., Baba T., Fujita K., Hayashi K., Honjo A., Ikemoto K., Inada T., Itoh T., Kajihara M., Kanai K., Kashimoto K., Kimura S., Kitagawa M., Makino K., Masuda S., Miki T., Mizobuchi K., Mori H., Motomura K., Nakamura Y., Nashimoto H., Nishio Y., Saito N., Sampei G., Seki Y., Tagami H., Takemoto K., Wada C., Yamamoto Y., Yano M., Horiuchi T. <i>DNA Res.</i> 3:137-155(1996) Extraction of membrane proteins by differential solubilization for separation using two-dimensional gel electrophoresis. Molloy M.P., Herbert B.R., Walsh B.J., Tyler M.I., Traini M., Sanchez J.-C., Hochstrasser D.F., Williams K.L., Gooley A.A. <i>Electrophoresis</i> 19:837-844(1998) Identification of OmpT as the protease that hydrolyzes the antimicrobial peptide protamine before it enters growing cells of Escherichia coli. Stumpe S., Schmid R., Stephens D.L., Georgiou G., Bakker E.P.J. <i>Bacteriol.</i> 180:4002-4006(1998) In vitro folding, purification and characterization of Escherichia coli outer membrane protease ompT. Kramer R.A., Zandwijken D., Egmond M.R., Dekker N. <i>Eur. J. Biochem.</i> 267:885-893(2000) Identification of essential acidic residues of outer membrane protease OmpT supports a novel active site. Kramer R.A., Vandeputte-Rutten L., de Roon G.J., Gros P., Dekker N., Egmond M.R. <i>FEBS Lett.</i> 505:426-430(2001) Crystal structure of the outer membrane protease OmpT from Escherichia coli suggests a novel catalytic site. Vandeputte-Rutten L., Kramer R.A., Kroon J., Dekker N., Egmond M.R., Gros P. <i>EMBO J.</i> 20:5033-5039(2001)
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NCBI AND UNIPROT INFORMATION

NCBI GI #	16128548
NCBI GeneID	945185
NCBI Accession #	NP_415097.1
NCBI GenBank Nucleotide #	NC_000913.3
UniProt Accession #	P09169
Molecular Weight	37.5 kDa
NCBI Official Full Name	DLP12 prophage; outer membrane protease VII; outer membrane protein 3b
NCBI Official Symbol	ompT
NCBI Official Synonym Symbols	ECK0557; JW0554
NCBI Protein Information	DLP12 prophage; outer membrane protease VII; outer membrane protein 3b
UniProt Protein Name	Protease 7
UniProt Gene Name	ompT
UniProt Entry Name	OMPT_ECOLI

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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://www.aaabiotech.com/ompt-recombinant-protein-e-coli/18640>