

Cytidylate kinase Recombinant Protein | cmk recombinant protein

Recombinant Escherichia coli Cytidylate kinase

CATALOG # AAA114640	HOST E Coli or Yeast or Baculovirus or Mammalian Cell
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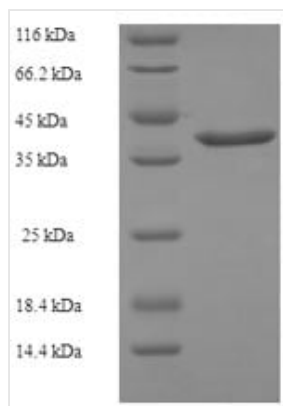
PRODUCT SYNONYMS

Cytidylate kinase; Recombinant Escherichia coli Cytidylate kinase; Cytidine monophosphate kinase; CMP kinase; Protein MssA; p25; cmk 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	1-227. Full Length
Sequence	MTAIAPVITI DGPSGAGKGT LCKAMAEALQ WHLLDSGAIY RVLALAALHH HVDVASEDAL VPLASHLDVR FVSTNGNLEV ILEGEDVSGE IRTQEVANAA SQVAAFPRVR EALLRRQRAF RELPGLIADG RDMGTVVFPD APVKIFLDAS SEERAHRRML QLQEKGFVN FERLLAEIKE RDDRDNRNAV APLVPAADAL VLDSTTLSIE QVIEKALQYA RQKLALA
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 cmk recombinant protein	ATP, dATP, and GTP are equally effective as phosphate donors. CMP and dCMP are the best phosphate acceptors.
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References	Transcriptional organization of the rpsA operon of Escherichia coli.Pedersen S., Skouv J., Kajitani M., Ishihama A.Mol. Gen. Genet. 196:135-140(1984) 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.DNA Res. 3:137-155(1996) 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.Science 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.Mol. Syst. Biol. 2:E1-E5(2006) The DNA sequence of the gene rpsA of Escherichia coli coding for ribosomal protein S1.Schnier J., Isono K.Nucleic Acids Res. 10:1857-1865(1982) Multicopy suppressors, mssA and mssB, of an smbA mutation of Escherichia coli.Yamanaka K., Ogura T., Koonin E.V., Niki H., Hiraga S.Mol. Gen. Genet. 243:9-16(1994) The cmk gene encoding cytidine monophosphate kinase is located in the rpsA operon and is required for normal replication rate in Escherichia coli.Fricke J., Neuhard J., Kelln R.A., Pedersen S.J. Bacteriol. 177:517-523(1995) Structural and catalytic properties of CMP kinase from Bacillus subtilis a comparative analysis with the homologous enzyme from Escherichia coli.Schultz C.P., Ylisastigui-Pons L., Serina L., Sakamoto H., Mantsch H.H., Neuhard J., Barzu O., Gilles A.M.Arch. Biochem. Biophys. 340:144-153(1997) Structures of Escherichia coli CMP kinase alone and in complex with CDP a new fold of the nucleoside monophosphate binding domain and insights into cytosine nucleotide specificity.Briozzo P., Golinelli-Pimpaneau B., Gilles A.M., Gaucher J.F., Burlacu-Miron S., Sakamoto H., Janin J., Barzu O.Structure 6:1517-1527(1998)
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NCBI AND UNIPROT INFORMATION

NCBI GI #	16128877
NCBI GeneID	945535
NCBI Accession #	NP_415430.1
NCBI GenBank Nucleotide #	NC_000913.3
UniProt Accession #	P0A6I0; P03823; P23863; P78263
Molecular Weight	40.7 kDa
NCBI Official Full Name	cytidylate kinase
NCBI Official Symbol	cmk
NCBI Official Synonym Symbols	ECK0901; JW0893; mssA; ycaF; ycaG
NCBI Protein Information	cytidylate kinase
UniProt Protein Name	Cytidylate kinase
UniProt Gene Name	cmk
UniProt Synonym Gene Names	mssA; ycaF; ycaG; CK; CMP kinase
UniProt Entry Name	KCY_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.