

strain K12 Methyl-accepting chemotaxis protein II Recombinant Protein | tar recombinant protein

Recombinant strain K12 Methyl-accepting chemotaxis protein II

CATALOG # AAA114778	HOST E Coli or Yeast or Baculovirus or Mammalian Cell
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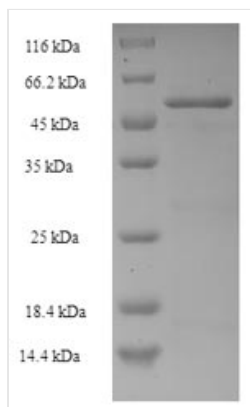
PRODUCT SYNONYMS

strain K12 Methyl-accepting chemotaxis protein II; Recombinant strain K12 Methyl-accepting chemotaxis protein II; Aspartate chemoreceptor protein; tar 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	212-553aa; Cytoplasmic Domain
Sequence	IRRMLTPLA KIAHIREIA GGNLANTLTI DGRSEMGDLA QSVSHMQRSL TDTVTHVREG SDAIYAGTRE IAAGNTDLSS RTEQQASALE ETAASMEQLT ATVKQNADNA RQASQLAQSA SDTAQHGGKV VDGVVKTMHE IADSSKKIAD IISVIDGIAF QTNILALNAA VEAARAGEQG RGFVAVAGEV RNLASRSAQA AKEIKALIED SVSRVDTGSV LVESAGETMN NIVNAVTRVT DIMGEIASAS DEQSRGIDQV ALAVSEMDRV TQQNASLVQE SAAAAALEE QASRLTQAVS AFRLAASPLT NKPQTPSRPA SEQPPAQPRL RIAEQDPNWE TF
Sequence Length	553
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 tar recombinant protein	Receptor for the attractant L-aspartate and related amino and dicarboxylic acids. Tar also mediates taxis to the attractant maltose via an interaction with the periplasmic maltose binding protein. Tar mediates taxis away from the repellents cobalt and nickel. Chotactic-signal transducers respond to changes in the concentration of attractants and repellents in the environment, transduce a signal from the outside to the inside of the cell, and facilitate sensory adaptation through the variation of the level of methylation. Attractants increase the level of methylation while repellents decrease the level of methylation, the methyl groups are added by the methyltransferase CheR and removed by the methylesterase CheB.
References	Sensory transducers of E. coli are composed of discrete structural and functional domains.Krikos A., Mutoh N., Boyd A., Simon M.I.Cell 33:615-622(1983) A 460-kb DNA sequence of the Escherichia coli K-12 genome corresponding to the 40.1-50.0 min region on the linkage map.Itoh T., Aiba H., Baba T., Fujita K., Hayashi K., Inada T., Isono K., Kasai H., Kimura S., Kitakawa M., Kitagawa M., Makino K., Miki T., Mizobuchi K., Mori H., Mori T., Motomura K., Nakade S., Nakamura Y., Nashimoto H., Nishio Y., Oshima T., Saito N., Sampei G., Seki Y., Sivasundaram S., Tagami H., Takeda J., Takemoto K., Wada C., Yamamoto Y., Horiuchi T.DNA Res. 3:379-392(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) Escherichia coli proteome analysis using the gene-protein database.VanBogelen R.A., Abshire K.Z., Moldover B., Olson E.R., Neidhardt F.C.Electrophoresis 18:1243-1251(1997) Global topology analysis of the Escherichia coli inner membrane proteome.Daley D.O., Rapp M., Granseth E., Melen K., Drew D., von Heijne G.Science 308:1321-1323(2005) Isolation and identification of new inner membrane-associated proteins that localize to cell poles in Escherichia coli.Li G., Young K.D.Mol. Microbiol. 84:276-295(2012) The three-dimensional structure of the aspartate receptor from Escherichia coli.Bowie J.U., Pakula A.A., Simon M.I.Acta Crystallogr. D 51:145-154(1995) Apo structure of the ligand-binding domain of aspartate receptor from Escherichia coli and its comparison with ligand-bound or pseudoligand-bound structures.Chi Y.-I., Yokota H., Kim S.-H.FEBS Lett. 414:327-332(1997)

NCBI AND UNIPROT INFORMATION

NCBI GI #	16129838
NCBI GeneID	946399
NCBI Accession #	NP_416400.1
NCBI GenBank Nucleotide #	NC_000913.3
UniProt Accession #	P07017 ; P76301
Molecular Weight	52 kDa
NCBI Official Full Name	methyl-accepting chemotaxis protein II
NCBI Official Symbol	tar
NCBI Official Synonym Symbols	cheM; ECK1887; JW1875
NCBI Protein Information	methyl-accepting chemotaxis protein II
UniProt Protein Name	Methyl-accepting chemotaxis protein II
UniProt Gene Name	tar
UniProt Synonym Gene Names	cheM; MCP-II
UniProt Entry Name	MCP2_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.

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Online datasheet: <https://stage.aaabiotech.com/tar-recombinant-protein-e-coli-or-yeast-or-baculovirus-or-mammalian-cell/114778>