

Probable phosphatidylethanolamine transferase Mcr-1 (mcr1) Recombinant Protein

Recombinant Escherichia coli Probable phosphatidylethanolamine transferase Mcr-1 (mcr1)

CATALOG #
AAA233573

HOST
E Coli or Yeast or Baculovirus or Mammalian Cell

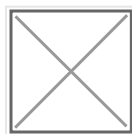
PRODUCT SYNONYMS

Probable phosphatidylethanolamine transferase Mcr-1 (mcr1); Recombinant Escherichia coli Probable phosphatidylethanolamine transferase Mcr-1 (mcr1); Polymyxin resistance protein MCR-1; Probable phosphatidylethanolamine transferase Mcr-1 (mcr1) 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	1-541aa. Full Length
Sequence	MMQHTSVWYR RSVSPFVLVA SVAVFLTATA NLTFFDKISQ TYPIADNLGF VLTIAVVLFG AMLLITLLS SYRYVLKPVLL ILLIMGAVT SYFTDTYGTV YDTTMLQNAL QTDQAETKDL LNAAFIMRII GLGVLPSSLV AFVKVDYPTW GKGLMRRLLGL IVASLALILL PVVAFSSHYA SFFRVHKPLR SYVNPIMPIY SVGKLASIEY KKASAPKDTI YHAKDAVQAT KPDMRKPLRV VFVVGETARA DHVSFNGYER DTFPQLAKID GVTNFSNVTS CGTSTAYSVP CMFSYLGAE YDVRTAKYQE NVLDTLDRLG VSILWRDNNS DSKGVMDKLP KAQFADYKSA TNNAICNTNP YNECRDVGML VGLDDFVAAN NGKDMMLIMLH QMGNHGPAYF KRYDEKFAK TPVCEGNELA KCEHQSLINA YDNALLATDD FIAQSIQWLQ THSNAYDVSM LYVSDHGESL GENGVYLHGM PNAFAPKEQR SVPAFFWTDK QTGITPMATD TVLTHDAITP TLLKLFDVTA DKVKDRTAFI R
Species	Escherichia coli
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for Probable phosphatidylethanolamine transferase Mcr-1 (mcr1) recombinant protein

Probably catalyzes the addition of a phosphoethanolamine moiety to lipid A. Phosphoethanolamine modification of lipid A gives polymyxin resistance (PubMed:26603172).1 Publication

Confers resistance to polymyxin-type antibiotics; expression of the Mcr-1 protein in E.coli increases colistin and polymyxin B minimal inhibitory concentration (MIC) from 0.5 mg/ml to 2.0 mg/ml. The pHNSHP45 plasmid can transfer efficiently (0.1 to 0.001) to other E.coli strains by conjugation and increases polymyxin MIC by 8- to 16-fold; it may not require selective pressure to be maintained in the cell. When transformed into K.pneumoniae or P.aeruginosa it also increases polymyxin MIC 8- to 16-fold. In a murine (BALB/c mice) thigh infection study using an mcr1-encoding plasmid isolated from a human patient, the plasmid confers in vivo protection against colistin (PubMed:26603172).

Product Categories/Family for Probable phosphatidylethanolamine transferase Mcr-1 (mcr1) recombinant protein	Microbiology
References	"Emergence of plasmid-mediated colistin resistance mechanism MCR-1 in animals and human beings in China: a microbiological and molecular biological study."Liu Y.Y., Wang Y., Walsh T.R., Yi L.X., Zhang R., Spencer J., Doi Y., Tian G., Dong B., Huang X., Yu L.F., Gu D., Ren H., Chen X., Lv L., He D., Zhou H., Liang Z., Liu J.H., Shen J.Lancet Infect. Dis. 16:161-168(2016)

NCBI AND UNIPROT INFORMATION

Molecular Weight	76.1 kDa
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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/probable-phosphatidylethanolamine-transferase-mcr-1-mcr1-recombinant-protein-e-coli-or-yeast-or-baculovirus-or-mammalian-cell/233573>