Para-Aminobenzoate Synthase Glutamine Amidotransferase Component II (pabA) Enterobacter Aerogenes Recombinant Protein

PRODUCT OVERVIEW

Product Name	Para-aminobenzoate synthase glutamine amidotransferase component II (pabA), Recombinant Protein
Full Product Name	Recombinant Enterobacter aerogenes Para-aminobenzoate synthase glutamine amidotransferase component II (pabA)
Product Gene Name	pabA recombinant protein
Sequence	MILLIDNYDS FTWNLYQYFC ELGAEVLVRR NDELTLADII SLAPAKIVIS PGPCTPDESG ISLAAIRHFS GQTPILGVCL GHQAIAQVFG AAIVRAAKVM HGKTSPVSHT GQGVFLGLNN PLTVTRYHSL LIDPRTLPEC FEVTARSEEG EIMGIRHRVF DLEGVQFHPE SILSEQGHQL LANFLNR
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
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.
Molecular Weight	20,564 Da
Sequence Positions	1-187, Full length protein
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
3D Structure	ModBase 3D Structure for P06194
Species	Enterobacter aerogenes (Aerobacter aerogenes)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for pabA recombinant protein	MBS1228459 is a recombinant protein targeting pabA. Also known as Recombinant Enterobacter aerogenes Para-aminobenzoate synthase glutamine amidotransferase component II (pabA). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of pabA recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for pabA. It may not necessarily be applicable to this product.

NCBI GI #	129523
NCBI Accession #	P06194.1
UniProt Primary Accession #	P06194
NCBI Official Full Name	Aminodeoxychorismate synthase component 2
UniProt Protein Name	Aminodeoxychorismate synthase component 2

UniProt Synonym Protein Names	4-amino-4-deoxychorismate synthase component 2; Aminodeoxychorismate synthase, glutamine amidotransferase component
Protein Family	Aminodeoxychorismate/anthranilate synthase
UniProt Gene Name	pabA
UniProt Synonym Gene Names	ADC synthase; ADCS
UniProt Comments for pabA	Part of a heterodimeric complex that catalyzes the two-step biosynthesis of 4-amino-4-deoxychorismate (ADC), a precursor of p-aminobenzoate (PABA) and tetrahydrofolate. In the first step, a glutamine amidotransferase (PabA) generates ammonia as a substrate that, along with chorismate, is used in the second step, catalyzed by aminodeoxychorismate synthase (PabB) to produce ADC. PabA converts glutamine into glutamate only in the presence of stoichiometric amounts of PabB ().
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