5-Formaminoimidazole-4-Carboxamide-1- (Beta)-D-Ribofuranosyl 5'-Monophosphate Synthetase (purP) Methanobrevibacter Smithii Recombinant Protein

PRODUCT OVERVIEW

Product Name	5-formaminoimidazole-4-carboxamide-1- (beta)-D-ribofuranosyl 5'-monophosphate synthetase (purP), Recombinant Protein
Full Product Name	Recombinant Methanobrevibacter smithii 5-formaminoimidazole-4-carboxamide-1- (beta)-D-ribofuranosyl 5'-monophosphate synthetase
Product Gene Name	purP recombinant protein
Sequence	MGEVKLEDIF EILDNYDKDN ITIATLGSHT SLHILQGAKE EGFRTAIVCE KGREVPYQRF DVADEYIIVD KFKDIVNEDV QQKLRDMNAI VIPHGSFVAY AGLDNVEDKF NVPMFGNRDI LRWEAERDKE RALLVEGEVR IPYKYDNPSE IDRPVMVKFP GARGGRGYFV ASSPEEFNKK IDAMKARGWL EDSDVANAHI EEYVSGCNYC IHYFYSALED EVELLGMDTR YESSIDGFVR MPAKDQLDID LSPSYVVTGN HPAVIRESLL PQVFEMADKL VESAKKLVAP GLNGPFCMQT LVNDNLEVIC FEISARTDGG TNTFMGGSPY SYLTYGKPMS MGRRIALEIK NAIKKEELEK IIT
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	41,018 Da
Sequence Positions	1-363, 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 A5UKI3
Species	Methanobrevibacter smithii (strain PS / 35061 / DSM 861)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for purP recombinant protein	MBS1257048 is a recombinant protein targeting purP. Also known as Recombinant Methanobrevibacter smithii 5-formaminoimidazole-4-carboxamide-1- (beta)-D-ribofuranosyl 5'-monophosphate synthetase. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of purP 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 purP. It may not necessarily be applicable to this product.

NCBI GI #	490136356
NCBI Accession #	WP_004036716.1
UniProt Primary Accession #	A5UKI3

GenBank Nucleotide #	WP_004036716.1
NCBI Official Full Name	MULTISPECIES: 5-formaminoimidazole-4-carboxamide-1-(beta)-D-ribofuranosyl 5'-monophosphate synthetase
UniProt Protein Name	5-formaminoimidazole-4-carboxamide-1-(beta)-D-ribofuranosyl 5'-monophosphate synthetase
UniProt Synonym Protein Names	5-aminoimidazole-4-carboxamide-1-beta-D-ribofuranosyl 5'-monophosphate--formate ligase
Protein Family	5-formaminoimidazole-4-carboxamide-1-(beta)-D-ribofuranosyl 5'-monophosphate synthetase
UniProt Gene Name	purP
UniProt Comments for purP	Catalyzes the ATP- and formate-dependent formylation of 5-aminoimidazole-4-carboxamide-1-beta-d-ribofuranosyl 5'-monophosphate (AICAR) to 5-formaminoimidazole-4-carboxamide-1-beta-d-ribofuranosyl 5'-monophosphate (FAICAR) in the absence of folates.
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