Pantothenate Synthetase (panC) Acidithiobacillus Ferrooxidans Recombinant Protein

PRODUCT OVERVIEW

Product Name	Pantothenate synthetase (panC), Recombinant Protein
Full Product Name	Recombinant Acidithiobacillus ferrooxidans Pantothenate synthetase (panC)
Product Gene Name	panC recombinant protein
Product Synonym Gene Name	panC; AFE_1770
Product Synonym Names	Pantothenate synthetase; PS; EC=6.3.2.1; Pantoate--beta-alanine ligase; Pantoate-activating enzyme
Sequence	MAIFKDIAGL RQWRQSLHGT LALVPTMGNL HEGHLALVRL AANRAEHVLV SIYVNPLQFG PGEDFANYPR TLDQDLQRLH EAGCQTVFTP DDGLMYPRGR QDISIVMPPR SLSKVLCGAS RPGHFAGVCT VLSKLLHMVA PEILILGEKD YQQLRIVQQM VADLNLNVQV LPGPLQREAD GLAYSSRNIY LNLAERQVAP LLAETLFDLA RRSTNDAAVS DLAATGWERL ERAGFLPEYL ELRDAQTLQS LALPQPGARW FAAARLGQIR LIDNVIIS
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	30,789 Da
Sequence Positions	1-278aa; 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 B7JBM7
Species	Acidithiobacillus ferrooxidans (strain 23270 / DSM 14882 / NCIB 8455) (Ferrobacillus ferrooxidans (strain 23270))
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for panC recombinant protein	MBS1250608 is a recombinant protein targeting panC. Also known as Recombinant Acidithiobacillus ferrooxidans Pantothenate synthetase (panC). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of panC 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 panC. It may not necessarily be applicable to this product.

NCBI GI #	501530266
NCBI GeneID	7135652
NCBI Accession #	WP_012536744.1
UniProt Primary Accession #	B7JBM7

UniProt Related Accession #	B7JBM7
GenBank Nucleotide #	WP_012536744.1
NCBI Official Full Name	pantoate--beta-alanine ligase
NCBI Official Symbol	panC
UniProt Protein Name	Pantothenate synthetase
UniProt Synonym Protein Names	Pantoate--beta-alanine ligase; Pantoate-activating enzyme
Protein Family	Pantothenate synthetase
UniProt Gene Name	panC
UniProt Synonym Gene Names	PS
UniProt Entry Name	PANC_ACIF2
NCBI Protein Information	pantoate--beta-alanine ligase
UniProt Comments for panC	Catalyzes the condensation of pantoate with beta-alanine in an ATP-dependent reaction via a pantoyl-adenylate intermediate.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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