Cobyric Acid Synthase (cobQ) Clostridium Beijerinckii Recombinant Protein

PRODUCT OVERVIEW

Product Name	Cobyric acid synthase (cobQ), Recombinant Protein
Full Product Name	Recombinant Clostridium beijerinckii Cobyric acid synthase (cobQ)
Product Gene Name	cobQ recombinant protein
Sequence	MDKKSIMFLG TASSVGKSTL VTALCRYLKN QGLNVAPFKA LNISLNSYVT KDGLEMGRAQ VVQAEACKLE ADALMNPVLL KPSGEYTQVI ADGKVFCNIE PYKYKELNET LKVRVKKAYD KLSKKHDVIV LEGSGSCAEI NLKDSDISNM AMAEIADAPV ILVSDIDRGG VFASIVGTIQ LLPESERERI KGVIINKFRG NIELFKPAIK QLEDIINIPV LGVMPYEKFD IDDEDSVTER IRNKEEVGTL DIAIIRLSHM SNFTDFSILD RIPDVTIRYV DKPSELKNPN LIIIPGTKNT IEDLRSMKEN KLFDKIKELK ESGTPILGIC GGYQMLGTLI LDKLGVEGNI SQEDGFGFLD IKTRFNETKV TKQTKGNILC DLKSIKSIEG STISGYEIHN GISKIGKKAI PFIKDLDGDI VGVCDKERIV AGTYLHGMFD SEEFISSFVK SLKENNDIVV TEDIIIEKVN EYKDNEYDRL SKLFEENIDI YQLRKIMEL
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	55,745 Da
Sequence Positions	1-499, 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 A6LSX2
Species	Clostridium beijerinckii (strain 51743 / NCIMB 8052) (Clostridium acetobutylicum)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for cobQ recombinant protein	MBS1231975 is a recombinant protein targeting cobQ. Also known as Recombinant Clostridium beijerinckii Cobyric acid synthase (cobQ). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of cobQ 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 cobQ. It may not necessarily be applicable to this product.

NCBI GI #	500663832
NCBI Accession #	WP_011968606.1
UniProt Primary Accession #	A6LSX2
GenBank Nucleotide #	WP_011968606.1
NCBI Official Full Name	cobyric acid synthase CobQ

UniProt Protein Name	Cobyric acid synthase
Protein Family	Probable cobyric acid synthase
UniProt Gene Name	cobQ
UniProt Comments for cobQ	Catalyzes amidations at positions B, D, E, and G on adenosylcobyrinic A,C-diamide. NH2 groups are provided by glutamine, and one molecule of ATP is hydrogenolyzed for each amidation.
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