Citrate Lyase Subunit Beta-Like Protein, Mitochondrial (CLYBL) Rat Recombinant Protein

PRODUCT OVERVIEW

Product Name	Citrate lyase subunit beta-like protein, mitochondrial (Clybl), Recombinant Protein
Full Product Name	Recombinant Rat Citrate lyase subunit beta-like protein, mitochondrial (Clybl)
Product Gene Name	Clybl recombinant protein
Product Synonym Gene Name	Clybl
Sequence	ASLVASVCRP GYSSLSNHKY VPRRAVLYVP GNDEKKIRKI PSLKVDCAVL DCEDGVAENK KNEARLRIAK TLEDFDLGTT EKCVRINSVS SGLAEADLET FLQARVLPSS LMLPKVEGPE EIQWFSDKFS LHLKGRKLEQ PMNLIPFVET AMGLLNFKAV CEETLKIGPQ VGLFLDAVVF GGEDFRASIG ATSNKDTQDI LYARQKIVVT AKAFGLQAID LVYIDFRDED GLLRQSREAA AMGFTGKQVI HPNQIAVVQE QFTPTPEKIR WAEELIAAFK EHQQLGKGAF TFQGSMIDMP LLKQAQNIVT LATSIKEK
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	30,322 Da
Sequence Positions	21-338, 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 Q5I0K3
Species	Rat
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Clybl recombinant protein	MBS1319498 is a recombinant protein targeting Clybl. Also known as Recombinant Rat Citrate lyase subunit beta-like protein, mitochondrial (Clybl). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of Clybl 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 Clybl. It may not necessarily be applicable to this product.

NCBI GI #	213512607
NCBI GeneID	306198
NCBI Accession #	NP_001094155.1
UniProt Primary Accession #	Q5I0K3
UniProt Related Accession #	Q5I0K3

GenBank Nucleotide #	NM_001100685.1
NCBI Official Full Name	citramalyl-CoA lyase, mitochondrial
NCBI Official Synonym Full Names	citrate lyase beta like
NCBI Official Symbol	Clybl
UniProt Protein Name	Citramalyl-CoA lyase, mitochondrial
UniProt Synonym Protein Names	Beta-methylmalate synthase (EC:2.3.3.-
UniProt Gene Name	Clybl
UniProt Synonym Gene Names	Citrate lyase beta-like
NCBI Protein Information	citramalyl-CoA lyase, mitochondrial; citrate lyase subunit beta-like protein, mitochondrial
UniProt Comments for Clybl	Mitochondrial citramalyl-CoA lyase indirectly involved in the vitamin B12 metabolism. Converts citramalyl-CoA into acetyl-CoA and pyruvate in the C5-dicarboxylate catabolism pathway. The C5-dicarboxylate catabolism pathway is required to detoxify itaconate, a vitamin B12-poisoning metabolite. Also acts as a malate synthase in vitro, converting glyoxylate and acetyl-CoA to malate. Also acts as a beta-methylmalate synthase in vitro, by mediating conversion of glyoxylate and propionyl-CoA to beta-methylmalate. Also has very weak citramalate synthase activity in vitro.
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