Cytochrome B-245 Light Chain (CYBA) Rabbit Recombinant Protein

PRODUCT OVERVIEW

Product Name	Cytochrome b-245 light chain (CYBA), Recombinant Protein
Full Product Name	Recombinant Rabbit Cytochrome b-245 light chain (CYBA)
Product Gene Name	CYBA recombinant protein
Product Synonym Gene Name	CYBA
Sequence	GQIEWAMWAN EQALASGLIL VAGGIVATAG RFTQWYFGTY AIAAGVLVCL LEYPRGSRAK GSTLERCGQR YLTAVLKLLG PLSRNYYFRA ALHLALSVPA GFLLATILGT VCLVIASIIY LLAAVRGEQW TPIEPRPKER PQVGGTIKQP PSNPPPRPPV EARKKPGEED ATPAGGPPGG PRVNPIPVTD EVV
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	20,708 Da
Sequence Positions	2-194, 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 Q95MN4
Species	Rabbit
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for CYBA recombinant protein	Cytochrome b is comprised of a light chain (alpha) and a heavy chain (beta). This gene encodes the light, alpha subunit which has been proposed as a primary component of the microbicidal oxidase system of phagocytes. Mutations in this gene are associated with autosomal recessive chronic granulomatous disease (CGD), that is characterized by the failure of activated phagocytes to generate superoxide, which is important for the microbicidal activity of these cells.
Other Notes	Small volumes of CYBA 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.
Searchable Terms for CYBA purchase	MBS1479365 is a recombinant protein targeting CYBA. Also known as Recombinant Rabbit Cytochrome b-245 light chain (CYBA). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

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

NCBI GI #	126722776
NCBI GeneID	100008800
NCBI Accession #	NP_001075568.1

UniProt Primary Accession #	Q95MN4
UniProt Related Accession #	Q95MN4
GenBank Nucleotide #	NM_001082099.1
NCBI Official Full Name	cytochrome b-245 light chain
NCBI Official Symbol	CYBA
UniProt Protein Name	Cytochrome b-245 light chain
UniProt Synonym Protein Names	Cytochrome b(558) alpha chain; Cytochrome b558 subunit alpha; Neutrophil cytochrome b 22 kDa polypeptide; Superoxide-generating NADPH oxidase light chain subunit; p22 phagocyte B-cytochrome; p22-phox; p22phox
Protein Family	Cytochrome
UniProt Gene Name	CYBA
UniProt Synonym Gene Names	p22phox
NCBI Protein Information	cytochrome b-245 light chain
UniProt Comments for CYBA	Critical component of the membrane-bound oxidase of phagocytes that generates superoxide. Associates with NOX3 to form a functional NADPH oxidase constitutively generating superoxide.
Research Articles on CYBA	**1.** Angiotensin II inhibits the Na+/K+ pump via protein kinase c epsilon-dependent activation of NADPH oxidase subunits.
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