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

PRODUCT OVERVIEW

Product Name	Cytochrome b-245 light chain (Cyba), Recombinant Protein
Full Product Name	Recombinant Mouse Cytochrome b-245 light chain (Cyba)
Product Gene Name	Cyba recombinant protein
Product Synonym Gene Name	Cyba
Sequence	GQIEWAMWAN EQALASGLIL ITGGIVATAG RFTQWYFGAY SIAAGVLICL LEYPRGKRKK GSTMERCGQK YLTSVVKLFG PLTRNYYVRA ALHFLLSVPA GFLLATILGT VCLAIASVIY LLAAIRGEQW TPIEPKPKER PQVGGTIKQP PTNPPPRPPA EVRKKPSEGE EEAASAGGPQ VNPMPVTDEV V
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	17,593 Da
Sequence Positions	2-192, 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 Q61462
Species	Mouse
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	MBS1333873 is a recombinant protein targeting Cyba. Also known as Recombinant Mouse 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 #	669633289
NCBI GeneID	13057
NCBI Accession #	NP_001288213.1

UniProt Primary Accession #	Q61462
UniProt Secondary Accession #	Q3U820; Q9CWB9; Q9D2W2
UniProt Related Accession #	Q61462
GenBank Nucleotide #	NM_001301284.1
NCBI Official Full Name	cytochrome b-245 light chain isoform 2
NCBI Official Synonym Full Names	cytochrome b-245, alpha polypeptide
NCBI Official Symbol	Cyba
NCBI Official Synonym Symbols	b558; nmf333; p22phox; p22-phox
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.** Identification of a PPAR-gamma --> NF-kappaB --> p22phox neuroprotective signaling cascade opens a new avenue for protecting the brain against ischemic insult.
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