Cytochrome B-245 Heavy Chain (CYBB) (GP91-PHOX) Pig Recombinant Protein

PRODUCT OVERVIEW

Product Name	Cytochrome b-245 heavy chain (CYBB) (GP91-PHOX), Recombinant Protein
Full Product Name	Recombinant Pig Cytochrome b-245 heavy chain (CYBB)
Product Gene Name	GP91-PHOX recombinant protein
Product Synonym Gene Name	CYBB
Product Synonym Names	Recombinant Cytochrome b-245 heavy chain (CYBB); Cytochrome b-245 heavy chain EC= 1.-.-.-; CGD91-phox Cytochrome b(558) subunit beta; Cytochrome b558 subunit beta Heme-binding membrane glycoprotein gp91phox Neutrophil cytochrome b 91 kDa polypeptide gp91-
Sequence	STRVRRQLDR NLTFHKMVAW MIALHATIHT IAHLFNVEWC VNARVNNSDP YSIALSDIGD KPNETYLNFV RQRIKNPEGG LYVAVTRLAG ITGVVITLCL ILIITSSTKT IRRSYFEVFW YTHHLFVIFF IGLAIHGAER IVRRQTPKSL LVHDPKACAQ NISQWGKIKD CPIPEFAGNP PMTWKWIVGP MFLYLCERLV RFWRSQQKVV ITKVVTHPFK TIELQMKKKG FRMEVGQYIF VKRPAVSKLE WHPFTLTSAP EEDFFSIHIR IVGDWTEGLF KACGCDKQEF QDAWKLPKIA VDGPFGTASE DVFSYQVVML VGAGIGVTPF ASILKSVWYK YCNNATNLRL KKIYFYWLCR DTHAFEWFAD LLQLLETQMQ ERNNAGFLSY NIYLTGWDES QANHFAVHHD EEKDVITGLK QKTLYGRPNW DNEFKTIASQ HPTTRIGVFL CGPEALAETL NKQCISNSDS SPRGVHFIFN KENF
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 degree C. For extended storage, store at -20 or -80 degree C.
Molecular Weight	55,830 Da
Sequence Positions	1-484
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.
Chromosome Location	Chromosome: X; NC_010461.4 (37367828..37391583). Location: chromosome: X
3D Structure	ModBase 3D Structure for P52649
Species	Sus scrofa (Pig)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for GP91-PHOX recombinant protein	MBS957492 is a recombinant protein targeting GP91-PHOX. Also known as Recombinant Pig Cytochrome b-245 heavy chain (CYBB). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of GP91-PHOX 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 GP91-PHOX. It may not necessarily be applicable to this product.

NCBI GI #	47522902
NCBI GeneID	397108
NCBI Accession #	NP_999208.1
UniProt Primary Accession #	P52649
UniProt Related Accession #	P52649
GenBank Nucleotide #	NM_214043.1
NCBI Official Full Name	cytochrome b-245 heavy chain
NCBI Official Symbol	GP91-PHOX
NCBI Official Synonym Symbols	CYBB; NOX2
UniProt Protein Name	Cytochrome b-245 heavy chain
UniProt Synonym Protein Names	CGD91-phox; Cytochrome b(558) subunit beta; Cytochrome b558 subunit beta; Heme-binding membrane glycoprotein gp91phox; Neutrophil cytochrome b 91 kDa polypeptide; gp91-1; gp91-phox; p22 phagocyte B-cytochrome
UniProt Gene Name	CYBB
UniProt Synonym Gene Names	Cytochrome b558 subunit beta
UniProt Entry Name	CY24B_PIG
NCBI Protein Information	cytochrome b-245 heavy chain; gp91-1; CGD91-phox; p22 phagocyte B-cytochrome; cytochrome b558 subunit beta; neutrophil cytochrome b 91 kDa polypeptide; heme-binding membrane glycoprotein gp91phox
UniProt Comments for GP91-PHOX	Function: Critical component of the membrane-bound oxidase of phagocytes that generates superoxide. It is the terminal component of a respiratory chain that transfers single electrons from cytoplasmic NADPH across the plasma membrane to molecular oxygen on the exterior. Also functions as a voltage-gated proton channel that mediates the H+ currents of resting phagocytes. Cofactor: FAD Probable. Subunit structure: Composed of a heavy chain (beta) and a light chain (alpha). Interacts with calprotectin (S100A8/9) By similarity. Subcellular location: Cell membrane; Multi-pass membrane protein. Sequence similarities: Contains 1 FAD-binding FR-type domain.Contains 1 ferric oxidoreductase domain. Sequence caution: The sequence AAA64634.1 differs from that shown. Reason: Erroneous initiation.
Research Articles on GP91-PHOX	**1.** Upregulation of PPAR-gamma and NADPH oxidases are involved in restenosis.
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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