Phosphatidylserine Synthase 2 (PTDSS2) Rat Recombinant Protein

PRODUCT OVERVIEW

Product Name	Phosphatidylserine synthase 2 (Ptdss2), Recombinant Protein
Full Product Name	Recombinant Rat Phosphatidylserine synthase 2 (Ptdss2)
Product Gene Name	Ptdss2 recombinant protein
Product Synonym Gene Name	Ptdss2
Product Synonym Names	Recombinant Phosphatidylserine synthase 2 (Ptdss2); Phosphatidylserine synthase 2; PSS-2; PtdSer synthase 2 EC= 2.7.8.29; Serine-exchange enzyme II
Sequence	MRRGERRVAG GSGSESPLLE GRRSTESEVY DDGTNTFFWR AHTLTVLFIL TCALGYVTLL EETPQDTAYN TKRGIVASIL VFLCFGVTQA KDGPFSRPHP AYWRFWLCVS VVYELFLIFI LFQTVHDGRQ FLKYVDPRLG VPLPERDYGG NCLIYDADNK TDPFHNIWDK LDGFVPAHFI GWYLKTLMIR DWWMCMIISV MFEFLEYSLE HQLPNFSECW WDHWIMDVLL CNGLGIYCGM KTLEWLSLKT YKWQGLWNIP TYKGKMKRIA FQFTPYSWVR FEWKPASSLH RWLAVCGIIL VFLLAELNTF YLKFVLWMPP EHYLVLLRLV FFVNVGGVAM REIYDFMDEL KPHRKLGQQA WLVAAITVTE LLIVVKYDPH TLTLSLPFYI SQCWTLGSIL VLTWTVWRFF LRDITMRYKE TRRQKQQSHQ AINNGDGHPG PEDDLPGTGT AEEEGTTNDG VPAEEGPSAA S
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	54,722 Da
Sequence Positions	1-471
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: 1; NC_005100.3 (221040275..221065296). Location: 1q41
3D Structure	ModBase 3D Structure for B2GV22
Species	Rattus norvegicus (Rat)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Ptdss2 recombinant protein	MBS1241472 is a recombinant protein targeting Ptdss2. Also known as Recombinant Rat Phosphatidylserine synthase 2 (Ptdss2). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of Ptdss2 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 Ptdss2. It may not necessarily be applicable to this product.

NCBI GI #	157821375
NCBI GeneID	293620

NCBI Accession #	NP_001099786.1
UniProt Primary Accession #	B2GV22
UniProt Related Accession #	B2GV22
GenBank Nucleotide #	NM_001106316.1
NCBI Official Full Name	phosphatidylserine synthase 2
NCBI Official Synonym Full Names	phosphatidylserine synthase 2
NCBI Official Symbol	Ptdss2
NCBI Official Synonym Symbols	PSS-2
UniProt Protein Name	Phosphatidylserine synthase 2
UniProt Synonym Protein Names	Serine-exchange enzyme II
Protein Family	Phosphatidylserine synthase
UniProt Gene Name	Ptdss2
UniProt Synonym Gene Names	PSS-2
UniProt Entry Name	PTSS2_RAT
NCBI Protein Information	phosphatidylserine synthase 2; ptdSer synthase 2; serine-exchange enzyme II
UniProt Comments for Ptdss2	PTDSS2: Catalyzes a base-exchange reaction in which the polar head group of phosphatidylethanolamine (PE) or phosphatidylcholine (PC) is replaced by L-serine. PTDSS2 is specific for phosphatatidylethanolamine and does not act on phosphatidylcholine. Belongs to the phosphatidyl serine synthase family. Protein type: Membrane protein, multi-pass; Lipid Metabolism - glycerophospholipid; Transferase; Membrane protein, integral; EC 2.7.8.29 Cellular Component: endoplasmic reticulum membrane; membrane; integral to membrane; intracellular Molecular Function: CDP-diacylglycerol-serine O-phosphatidyltransferase activity Biological Process: phosphatidylserine biosynthetic process
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