Group XIIA Secretory Phospholipase A2 (PLA2G12A) Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	Group XIIA secretory phospholipase A2 (PLA2G12A), Recombinant Protein
Full Product Name	Recombinant Human Group XIIA secretory phospholipase A2 (PLA2G12A)
Product Gene Name	PLA2G12A recombinant protein
Product Synonym Gene Name	PLA2G12A
Sequence	QEQAQTTDWR ATLKTIRNGV HKIDTYLNAA LDLLGGEDGL CQYKCSDGSK PFPRYGYKPS PPNGCGSPLF GVHLNIGIPS LTKCCNQHDR CYETCGKSKN DCDEEFQYCL SKICRDVQKT LGLTQHVQAC ETTVELLFDS VIHLGCKPYL DSQRAACRCH YEEKTDL
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	21,067 Da
Sequence Positions	23-189, 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.
OMIM	611652
3D Structure	ModBase 3D Structure for Q9BZM1
Species	Human
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for PLA2G12A recombinant protein	MBS1337316 is a recombinant protein targeting PLA2G12A. Also known as Recombinant Human Group XIIA secretory phospholipase A2 (PLA2G12A). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of PLA2G12A 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 PLA2G12A. It may not necessarily be applicable to this product.

NCBI GI #	21361944
NCBI GeneID	81579
NCBI Accession #	NP_110448.2
UniProt Primary Accession #	Q9BZM1

UniProt Secondary Accession #	Q9BZ89
UniProt Related Accession #	Q9BZM1
GenBank Nucleotide #	NM_030821.4
NCBI Official Full Name	group XIIA secretory phospholipase A2
NCBI Official Synonym Full Names	phospholipase A2 group XIIA
NCBI Official Symbol	PLA2G12A
NCBI Official Synonym Symbols	GXII; ROSSY; PLA2G12
UniProt Protein Name	Group XIIA secretory phospholipase A2
UniProt Synonym Protein Names	Phosphatidylcholine 2-acylhydrolase 12A
Protein Family	Group XIIA secretory phospholipase
UniProt Gene Name	PLA2G12A
UniProt Synonym Gene Names	PLA2G12; GXII sPLA2; sPLA2-XII
NCBI Protein Information	group XIIA secretory phospholipase A2
NCBI Summary for PLA2G12A	Secreted phospholipase A2 (sPLA2) enzymes liberate arachidonic acid from phospholipids for production of eicosanoids and exert a variety of physiologic and pathologic effects. Group XII sPLA2s, such as PLA2G12A, have relatively low specific activity and are structurally and functionally distinct from other sPLA2s (Gelb et al., 2000 [PubMed 11031251]).[supplied by OMIM, Mar 2008]
UniProt Comments for PLA2G12A	PA2 catalyzes the calcium-dependent hydrolysis of the 2-acyl groups in 3-sn-phosphoglycerides. Does not exhibit detectable activity toward sn-2-arachidonoyl- or linoleoyl-phosphatidylcholine or -phosphatidylethanolamine.
Research Articles on PLA2G12A	**1.** The study demonstrated that PLA2G12A SNPs or haplotypes might influence the susceptibility to schizophrenia in the Han Chinese population from Northeast China.
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