PLD2 Blocking Peptide – The purity is >90%,tested by HPLC and MS. Purity

PRODUCT OVERVIEW

Product Name	PLD2, Blocking Peptide
Full Product Name	PLD2 Blocking Peptide
Product Gene Name	PLD2 blocking peptide
Product Synonym Names	Choline phosphatase 2; EC 3.1.4.4; hPLD 2; hPLD2; mPLD2; Phosphatidylcholine hydrolyzing phospholipase D2; Phosphatidylcholine-hydrolyzing phospholipase D2; Phospholipase D2; PhospholipaseD2; PLD 2; PLD1C; Pld2; PLD2_HUMAN; Pldc; rPLD2
Form/Format	Synthetic peptide was lyophilized with 100% acetonitrile and is supplied as a powder. Reconstitute with 0.1 ml DI water for a final concentration of 10 mg/ml.
Purity/Purification	The purity is >90%,tested by HPLC and MS.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C.
Antibody/Peptide Pairs	PLD2 peptide (MBS9628773) is used for blocking the activity of PLD2 antibody (MBS9610069)
Chromosome Location	Chromosome: 17; NC_000017.10 (4710396..4726727). Location: 17p13.1
OMIM	602384
Supply Chain Verification	Manufactured in a lab with traceable raw materials manufactured on site. Coordinated product portfolio of antibodies, pairs, conjugates, recombinant proteins, and immunoassay materials available, please inquire.
Notes	For phospho antibody, we provide phospho peptide (0.5mg) and non-phospho peptide (0.5mg)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for PLD2 blocking peptide	Blocking/Control
Related Product Information for PLD2 blocking peptide	Blocking peptides are peptides that bind specifically to the target antibody and block antibody binding. These peptide usually contains the epitope recognized by the antibody. Antibodies bound to the blocking peptide no longer bind to the epitope on the target protein. This mechanism is useful when non-specific binding is an issue, for example, in Western blotting (immunoblot) and immunohistochemistry (IHC). By comparing the staining from the blocked antibody versus the antibody alone, one can see which staining is specific; Specific binding will be absent from the western blot or immunostaining performed with the neutralized antibody.
Other Notes	Small volumes of PLD2 blocking peptide 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 PLD2 purchase	MBS9628773 is a blocking peptide targeting PLD2.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PLD2. It may not necessarily be applicable to this product.

NCBI GI #	340805823
NCBI GeneID	5338
NCBI Accession #	NP_001230037.1
UniProt Primary Accession #	O14939
UniProt Secondary Accession #	O43540; O43579; O43580; Q6PGR0; Q96BY3; I3L2C9

UniProt Related Accession #	O14939
GenBank Nucleotide #	NM_001243108.1
NCBI Official Full Name	phospholipase D2 isoform PLD2B
NCBI Official Synonym Full Names	phospholipase D2
NCBI Official Symbol	PLD2
UniProt Protein Name	Phospholipase D2
UniProt Synonym Protein Names	Choline phosphatase 2; PLD1C; Phosphatidylcholine-hydrolyzing phospholipase D2
Protein Family	Phospholipase
UniProt Gene Name	PLD2
UniProt Synonym Gene Names	PLD 2; hPLD2
UniProt Entry Name	PLD2_HUMAN
NCBI Protein Information	phospholipase D2; PLD1C; hPLD2; choline phosphatase 2; phosphatidylcholine-hydrolyzing phospholipase D2
NCBI Summary for PLD2	The protein encoded by this gene catalyzes the hydrolysis of phosphatidylcholine to phosphatidic acid and choline. The activity of the encoded enzyme is enhanced by phosphatidylinositol 4,5-bisphosphate and ADP-ribosylation factor-1. This protein localizes to the peripheral membrane and may be involved in cytoskeletal organization, cell cycle control, transcriptional regulation, and/or regulated secretion. Two transcript variants encoding different isoforms have been found for this gene.[provided by RefSeq, Jul 2011]
UniProt Comments for PLD2	PLD2: a phosphatidylcholine-specific phospholipase D. Catalyzes the hydrolysis of PC to produce phosphatidic acid and choline. Activated as a consequence of agonist stimulation of both tyrosine kinase and G protein-coupled receptors. May function in regulated secretion, cytoskeletal reorganization, transcriptional regulation, and cell cycle control. Enriched in caveolae; may be involved in MEK/ERK signaling cascades induced by the VEGF/VEGFR-2/PKC-delta pathway in endothelial cells. Three alternatively spliced isoforms have been described. Protein type: Motility/polarity/chemotaxis; EC 3.1.4.4; Lipid Metabolism - ether lipid; Lipid Metabolism - glycerophospholipid; Phospholipase Chromosomal Location of Human Ortholog: 17p13.1 Cellular Component: endoplasmic reticulum membrane; brush border membrane; plasma membrane Molecular Function: protein binding; phospholipase D activity; phosphoinositide binding Biological Process: G-protein coupled receptor internalization; phosphatidylglycerol biosynthetic process; small GTPase mediated signal transduction; phospholipid metabolic process; glycerophospholipid biosynthetic process; innate immune response; phosphatidic acid biosynthetic process; cytoskeleton organization and biogenesis; lipid catabolic process
Research Articles on PLD2	**1.** FIC1 signals to FXR via a signaling pathway including PLD2 and PKCzeta
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.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.

Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/blocking-peptide/pld2/9628773