# PLA2G2C siRNA – Group IIC Secretory Phospholipase A2 (Rat)

## PRODUCT OVERVIEW

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| **Product Name** | PLA2G2C, siRNA |
| **Full Product Name** | PLA2G2C siRNA (Rat) |
| **Product Gene Name** | PLA2G2C sirna |
| **Product Synonym Names** | Group IIC secretory phospholipase A2; GIIC sPLA2; sPLA2-IIC; 14 kDa phospholipase A2; PLA2-8; Phosphatidylcholine 2-acylhydrolase 2C |
| **Host** | Synthetic |
| **Species Reactivity** | Rat |
| **Form/Format** | Lyophilized powder |
| **Purity/Purification** | > 97% |
| **Specificity** | PLA2G2C siRNA (Rat) is a target-specific 19-23 nt siRNA oligo duplexes designed to knock down gene expression. |
| **Preparation and Storage** | Shipped at 4 degree C. Store at -20 degree C for one year. |
| **Molecular Weight** | 16,919 Da |
| **3D Structure** | ModBase 3D Structure for P39878 |
| **Negative Control** | siRNA Negative Control (Catalog# MBS8241404) is a non-targeting 21 nt siRNA recommended as a negative control for experiments using targeted siRNA transfection. |
| **Quality Control** | Oligonucleotide synthesis is monitored base by base through trityl analysis to ensure appropriate coupling efficiency. The oligo is subsequently purified by affinity-solid phase extraction. The annealed RNA duplex is further analyzed by mass spectrometry to verify the exact composition of the duplex. Each lot is compared to the previous lot by mass spectrometry to ensure maximum lot-to-lot consistency. |
| **Directions for Use** | We recommends transfection with 100 nM siRNA 48 to 72 hours prior to cell lysis. Before resuspending, briefly centrifuge the tube to ensure the lyophilized siRNA is at the bottom of the tube. Resuspend the siRNA oligos to an appropriate concentration with DEPC water. For each vial, suitable for 250 transfections in 24 well plate (20 pmol for each well). |
| **Components** | We offer pre-designed sets of 3 different target-specific siRNA oligo duplexes of rat PLA2G2C gene. Each vial contains 5 nmol of lyophilized siRNA. The duplexes can be transfected individually or pooled together to achieve knockdown of the target gene, which is most commonly assessed by qPCR or western blot. Our siRNA oligos are also chemically modified (2'-OMe) at no extra charge for increased stability and enhanced knockdown in vitro and in vivo. |
| **Applications Tested/Suitable for PLA2G2C sirna** | RNA Interference (RNAi) |
| **Related Product Information for PLA2G2C sirna** | MBS8217367 is an siRNA targeting PLA2G2C. Also known as PLA2G2C siRNA (Rat). Reactive in Rat. Host: Synthetic. siRNA to inhibit PLA2G2C expression using RNA interference |
| **Other Notes** | Small volumes of PLA2G2C sirna 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 PLA2G2C. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 9506977 |

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| **NCBI GeneID** | 29387 |
| **NCBI Accession #** | NP_062075.1 |
| **UniProt Primary Accession #** | P39878 |
| **UniProt Related Accession #** | P39878 |
| **GenBank Nucleotide #** | NM_019202.2 |
| **NCBI Official Full Name** | group IIC secretory phospholipase A2 |
| **NCBI Official Synonym Full Names** | phospholipase A2, group IIC |
| **NCBI Official Symbol** | Pla2g2c |
| **UniProt Protein Name** | Group IIC secretory phospholipase A2 |
| **UniProt Synonym Protein Names** | 14 kDa phospholipase A2; PLA2-8; Phosphatidylcholine 2-acylhydrolase 2C |
| **Protein Family** | Group IIC secretory phospholipase |
| **UniProt Gene Name** | Pla2g2c |
| **UniProt Synonym Gene Names** | GIIC sPLA2; sPLA2-IIC |
| **UniProt Entry Name** | PA2GC_RAT |
| **NCBI Protein Information** | group IIC secretory phospholipase A2 |
| **NCBI Summary for PLA2G2C** | catalyzes Ca+2 dependent hydrolysis of phospholipids including hydrolysis of L-alpha-1-stearoyl-2-arachidonyl phosphatidylinositol [RGD, Feb 2006] |
| **UniProt Comments for PLA2G2C** | PA2 catalyzes the calcium-dependent hydrolysis of the 2-acyl groups in 3-sn-phosphoglycerides. |
| **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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