

## Recombinant Rat PLA2G5 Protein (21-137 aa), His-SUMO-tagged

**Cat. No.** PLA2G5-722R    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                          |
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| <b>Product Overview</b> | Recombinant Rat PLA2G5 Protein (21-137 aa) is produced by E. coli expression system. This protein is fused with a 6xHis-SUMO tag at the N-terminal. Protein Description: Full Length of Mature Protein.                                                                                                                                                                  |
| <b>Species</b>          | Rat                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                   |
| <b>ProteinLength</b>    | 21-137 aa                                                                                                                                                                                                                                                                                                                                                                |
| <b>Description</b>      | PA2 catalyzes the calcium-dependent hydrolysis of the 2-acyl groups in 3-sn-phospho glycerides. This isozyme hydrolyzes L-alpha-palmitoyl-2-oleoyl phosphatidylcholine more efficiently than L-alpha-1-palmitoyl-2-arachidonyl phosphatidylcholine, L-alpha-1-palmitoyl-2-arachidonyl phosphatidylethanolamine or L-alpha-1-stearoyl-2-arachidonyl phosphatidylinositol. |
| <b>Form</b>             | Tris-based buffer, 50% glycerol                                                                                                                                                                                                                                                                                                                                          |
| <b>Molecular Mass</b>   | 29.8 kDa                                                                                                                                                                                                                                                                                                                                                                 |
| <b>AA Sequence</b>      | GLLELKSMIEKVTKGNAVKNYGFYGCYCGWGGHGTPKDGTDWCCRMHDCYGLLEEKHCAIRTSYDYRFTQDLVICEHDSFCPVRLCACDRKLVYCLRRNLWSYNRLYQYYPNFLC                                                                                                                                                                                                                                                      |

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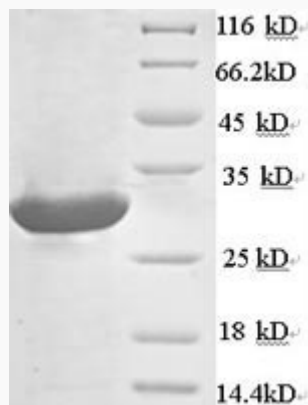
 45-1 Ramsey Road, Shirley, NY 11967, USA

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|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Purity</b>           | > 90% as determined by SDS-PAGE.                                                                                                                                                                                                                                                                                    |
| <b>Notes</b>            | Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.                                                                                                                                                                                                        |
| <b>Storage</b>          | The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20 centigrade/-80 centigrade. The shelf life of lyophilized form is 12 months at -20 centigrade/-80 centigrade. |
| <b>Concentration</b>    | A hardcopy of COA with concentration instruction is sent along with the products.                                                                                                                                                                                                                                   |
| <b>GENE INFORMATION</b> |                                                                                                                                                                                                                                                                                                                     |
| <b>Gene Name</b>        | Pla2g5 phospholipase A2, group V [ <i>Rattus norvegicus</i> ]                                                                                                                                                                                                                                                       |
| <b>Official Symbol</b>  | PLA2G5                                                                                                                                                                                                                                                                                                              |
| <b>Synonyms</b>         | PLA2G5; PLA2-10; MGC93513;                                                                                                                                                                                                                                                                                          |
| <b>Gene ID</b>          | 29354                                                                                                                                                                                                                                                                                                               |
| <b>mRNA Refseq</b>      | NM_017174                                                                                                                                                                                                                                                                                                           |
| <b>Protein Refseq</b>   | NP_058870                                                                                                                                                                                                                                                                                                           |
| <b>UniProt ID</b>       | P51433                                                                                                                                                                                                                                                                                                              |

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(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

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