

# Recombinant Rat Calcium-dependent phospholipase A2(Pla2g5)

Catalog No: #AP70640

Package Size: #AP70640-1 20ug #AP70640-2 100ug #AP70640-3 1mg

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## Description

Product Name	Recombinant Rat Calcium-dependent phospholipase A2(Pla2g5)
Host Species	E.coli
Purification	Greater than 90% as determined by SDS-PAGE.
Immunogen Description	Expression Region:21-137aaSequence Info:Full Length of Mature Protein
Other Names	Group V phospholipase A2;PLA2-10Phosphatidylcholine 2-acylhydrolase 5
Accession No.	P51433
Calculated MW	29.8 kDa
Tag Info	N-terminal 6xHis-SUMO-tagged
Target Sequence	GLLELKSMIEKVTGKNAVKNYGFYGCYCGWGGHGTPKDGTDWCCRMHDCRYGLLEEKHCAIRTSYDYRFT QDLVICEHDSFCPVRLCACDRKLVYCLRRNLWSYNRLYQYYPNFLC
Formulation	Tris-based buffer50% glycerol
Storage	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°C,-80°C. The shelf life of lyophilized form is 12 months at -20°C,-80°C.Notes:Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

## Background

PA2 catalyzes the calcium-dependent hydrolysis of the 2-acyl groups in 3-sn-phosphoglycerides. 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.

## References

Cloning, expression and partial characterization of a novel rat phospholipase A2.Chen J., Engle S.J., Seilhamer J.J., Tischfield J.A.Biochim. Biophys. Acta 1215:115-120(1994)Research Topic:Others

Note: This product is for in vitro research use only and is not intended for use in humans or animals.