

# Recombinant Homo sapiens Calcium-dependent phospholipase A2

Catalog No: #AP72724

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Package Size: #AP72724-1 20ug #AP72724-2 100ug #AP72724-3 1mg

## Description

Product Name	Recombinant Homo sapiens Calcium-dependent phospholipase A2
Brief Description	Recombinant Protein
Host Species	Yeast
Purification	Greater than 90% as determined by SDS-PAGE.
Immunogen Description	Expression Region:21-138aaSequence Info:Full Length
Other Names	Group V phospholipase A2 PLA2-10 Phosphatidylcholine 2-acylhydrolase 5
Accession No.	P39877
Uniprot	P39877
GeneID	5322;
Calculated MW	15.6 kDa
Tag Info	N-terminal 6xHis-tagged
Target Sequence	GLLDLKSMIEKVTGKNALTNYGFYGCYCGWGGRGTPKDGTDWCCWAHDHCYGRLEEKGCNIRTQSYKYRF AWGVVTCEPGPFCHVNLACDRKLVYCLKRNLRSYNPQYQYFPNILCS
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 more efficiently L-alpha-1-palmitoyl-2-oleoyl phosphatidylcholine than L-alpha-1-palmitoyl-2-arachidonoyl phosphatidylcholine, L-alpha-1-palmitoyl-2-arachidonoyl phosphatidylethanolamine, or L-alpha-1-stearoyl-2-arachidonoyl phosphatidylinositol. May be involved in the production of lung surfactant, the remodeling or regulation of cardiac muscle.

## References

"Biallelic mutations in PLA2G5, encoding group V phospholipase A2, cause benign fleck retina."Sergouniotis P.I., Davidson A.E., Mackay D.S., Lenassi E., Li Z., Robson A.G., Yang X., Kam J.H., Isaacs T.W., Holder G.E., Jeffery G., Beck J.A., Moore A.T., Plagnol V., Webster A.R.Am. J. Hum. Genet. 89:782-791(2011) Research Topic:Cardiovascular

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Note: This product is for in vitro research use only