Recombinant Full Length Human PLA2G2A Protein, C-Flag-tagged

Cat. No. PLA2G2A-2114HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human PLA2G2A Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	The protein encoded by this gene is a member of the phospholipase A2 family (PLA2). PLA2s constitute a diverse family of enzymes with respect to sequence, function, localization, and divalent cation requirements. This gene product belongs to group II, which contains secreted form of PLA2, an extracellular enzyme that has a low molecular mass and requires calcium ions for catalysis. It catalyzes the hydrolysis of the sn-2 fatty acid acyl ester bond of phosphoglycerides, releasing free fatty acids and lysophospholipids, and thought to participate in the regulation of the phospholipid metabolism in biomembranes. Several alternatively spliced transcript variants with different 5' UTRs have been found for this gene.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	13.9 kDa
AA Sequence	MKTLLLLAVIMIFGLLQAHGNLVNFHRMIKLTTGKEAALSYGFYGCHCGVGGRGSPK DATDRCCVTHDCC YKRLEKRGCGTKFLSYKFSNSGSRITCAKQDSCRSQLCECDK AAATCFARNKTTYNKKYQYYSNKHCRGS TPRC TRTRPLEQKLISEEDLAANDILDY

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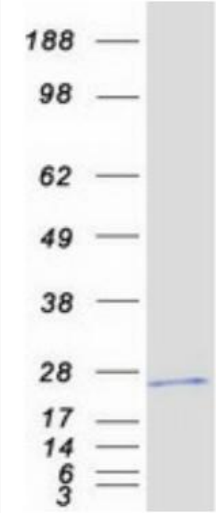
	KDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome, Transmembrane
Protein Pathways	alpha-Linolenic acid metabolism, Arachidonic acid metabolism, Ether lipid metabolism, Fc epsilon RI signaling pathway, Glycerophospholipid metabolism, GnRH signaling pathway, Linoleic acid metabolism, Long-term depression, MAPK signaling pathway, Metabolic pathways, Vascular smooth muscle contraction, VEGF signaling pathway
Full Length	Full L.

GENE INFORMATION

Gene Name	PLA2G2A phospholipase A2 group IIA [Homo sapiens (human)]
Official Symbol	PLA2G2A
Synonyms	MOM1; PLA2; PLA2B; PLA2L; PLA2S; PLAS1; sPLA2

Gene ID	5320
mRNA Refseq	NM_000300.4
Protein Refseq	NP_000291.1
MIM	172411
UniProt ID	P14555
	 Coomassie blue staining of purified PLA2G2A protein.

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