

Supplementary Table 1. Lipid internal standards used in LC-MS analysis

Lipid class	Species
PtdOH	25:0
	31:1
	37:4
	43:6
PC	25:0
	31:1
	37:4
	43:6
PE	25:0
	31:1
	37:4
	43:6
PG	25:0
	31:1
	37:4
	43:6
PS	25:0
	31:1
	37:4
	43:6
PI	25:0
	31:1
	37:4
	43:6

Supplementary Table 2. Species distribution of phospholipids and sphingolipids detected in A549 cells after treatment with wildtype (WT) or mutant (K169E) PldA.

Lipid class	Species	Treatment		Lipid class	Species	Treatment		
		WT ^a	K169E ^a			WT ^a	K169E ^a	
PtdOH	30:1	14.9%	8.1%	PC	30:0	2.0%	2.1%	
	32:1	6.4%	15.4%		32:1	10.1%	9.8%	
	34:2	3.5%	9.0%		32:0	2.8%	2.6%	
	34:1	22.2%	23.8%		34:1e	5.4%	5.4%	
	36:2	22.3%	27.1%		34:2	5.6%	5.5%	
	36:1	30.7%	16.6%		34:1	16.1%	15.6%	
PE					36:4e	3.0%	3.1%	
	30:1	0.3%	0.3%		36:2e	2.9%	3.0%	
	32:1	2.2%	0.9%		36:1e	3.1%	3.3%	
	34:1p	3.3%	3.5%		36:0e	2.5%	2.6%	
	34:2	3.2%	1.9%		36:4	6.4%	7.1%	
	34:1	4.8%	3.8%		36:3	5.9%	5.9%	
	36:4p	11.9%	12.6%		36:2	18.3%	18.1%	
	36:3p	2.3%	2.4%		36:1	8.3%	8.6%	
	36:2p	1.2%	1.3%		38:6	2.5%	2.3%	
	36:1p	1.6%	1.4%		38:5	5.2%	5.0%	
	36:4	3.6%	3.6%	PI				
	36:3	1.6%	1.8%			36:2	5.7%	5.6%
	36:2	6.8%	6.0%			36:1	3.4%	3.6%
	36:1	4.2%	4.1%			38:5	10.3%	10.5%
	36:0/38:6p	4.5%	4.5%			38:4	52.4%	52.8%
	38:5p	7.2%	7.7%			38:3	19.3%	18.7%
	38:4p	9.3%	10.1%			40:6	2.7%	2.5%
	38:5	8.4%	8.8%			40:5	3.2%	3.2%
	38:4	17.9%	19.0%			40:4	3.1%	3.0%
38:3	3.6%	4.0%	PS					
40:6	2.2%	2.3%			34:1	15.4%	15.4%	
PG						36:2	10.2%	10.2%
	34:1	42.3%		46.8%		36:1	32.9%	32.9%
SM	36:2	57.7%		53.2%		38:5	5.9%	5.8%
					38:4	23.5%	23.8%	
	d18:1/16:0	80.0%	80.2%		38:0	6.8%	6.6%	
	d18:2/22:0	20.0%	19.8%		40:6	5.1%	5.2%	
			BMP					
					40:7	100%	100%	

^aShown are mean values.