

Table 2. The K_m and V_{max} values of three acyltransferases for each substrate

Enzyme	Enzymatic activity	Substrate	Acyl-CoA			Lysophospholipid		
			K_m , μM	V_{max} , nmol/min/mg	K_m / V_{max}	K_m , μM	V_{max} , nmol/min/mg	K_m / V_{max}
mLPCAT3	LPCAT	16:0LPC/20:4CoA	6.1 - 9.5	914 - 978	102.9 - 149.9	33.8 - 35.2	1098 - 1352	32.5 - 38.4
	LPEAT	18:1LPE/20:4CoA	43.2 - 45.0	475 - 491	10.9 - 11.0	27.5 - 31.9	273 - 318	9.9 - 10.0
	LPSAT	18:1LPS/20:4CoA	23.2 - 32.8	275 - 318	9.7 - 11.9	17.0 - 27.6	350 - 400	14.5 - 20.6
mLPCAT4	LPCAT	16:0LPC/18:1CoA	4.1 - 6.5	17.8 - 30.0	4.3 - 4.6	6.9 - 8.9	20.8 - 28.4	3.0 - 3.2
	LPEAT	16:0LPE/18:1CoA	47.3 - 49.0	32.5 - 42.8	0.7 - 0.9	17.5 - 37.9	9.7 - 20.2	0.5 - 0.5
mLPEAT1	LPEAT	18:1LPE/18:1CoA	3.3 - 6.1	8.7 - 13.1	2.1 - 2.6	7.2 - 8.3	6.6 - 8.1	0.9 - 1.0
	LPSAT	18:1LPS/18:1CoA	3.2 - 4.6	3.4 - 5.1	0.7 - 1.6	1.8 - 2.7	4.5 - 5.8	2.1 - 2.5