

	male serum		female serum	
	WT	<i>Akr1d1</i> ^{-/-}	WT	<i>Akr1d1</i> ^{-/-}
monoacylglycerols				
1-myristoylglycerol (14:0)	0.86±0.057	1.1±0.071	1.1±0.11	1.1±0.24
1-pentadecanoylglycerol (15:0)	1.1±0.099	1.2±0.081	1.0±0.095	1.2±0.26
1-palmitoylglycerol (16:0)	0.98±0.12	1.2±0.093	1.0±0.13	1.3±0.29
1-palmitoleoylglycerol (16:1)*	1.3±0.19	2.2±0.22*	0.63±0.069	0.59±0.098
1-oleoylglycerol (18:1)	1.0±0.16	1.4±0.13*	0.75±0.061	0.78±0.082
1-linoleoylglycerol (18:2)	1.0±0.092	1.6±0.19*	0.94±0.078	0.88±0.16
1-linolenoylglycerol (18:3)	0.99±0.098	1.4±0.14	0.98±0.11	0.97±0.23
1-dihomo-linolenoylglycerol (20:3)	1.2±0.24	1.6±0.14*	0.76±0.071	0.75±0.10
1-arachidonoylglycerol (20:4)	1.3±0.17	1.4±0.14	0.91±0.079	1.0±0.15
1-docosahexaenoylglycerol (22:6)	1.4±0.31	1.7±0.22	0.85±0.12	0.66±0.12
2-palmitoylglycerol (16:0)	1.0±0.12	1.4±0.34	1.1±0.11	1.2±0.25
2-palmitoleoylglycerol (16:1)*	1.3±0.18	2.0±0.20	0.61±0.068	0.57±0.092
2-oleoylglycerol (18:1)	1.1±0.23	1.5±0.14*	0.77±0.084	0.84±0.13
2-linoleoylglycerol (18:2)	1.0±0.083	1.5±0.19*	0.92±0.073	0.84±0.14
2-arachidonoylglycerol (20:4)	1.0±0.17	1.2±0.24	0.71±0.13	0.76±0.085
2-docosahexaenoylglycerol (22:6)*	1.4±0.33	1.4±0.27	0.8±0.16	0.76±0.085
1-dihomo-linoleoylglycerol (20:2)	1.2±0.13	1.7±0.19	0.81±0.077	0.84±0.11
diacylglycerols				
diacylglycerol (16:1/18:2 [2], 16:0/18:3 [1])	1.1±0.29	1.6±0.28	0.33±0.67	0.35±0.12
palmitoyl-oleoyl-glycerol (16:0/18:1) [2]	0.80±0.19	1.4±0.22*	0.28±0.033	0.35±0.092
palmitoyl-linoleoyl-glycerol (16:0/18:2) [1]	1.6±0.23	1.7±0.27	0.75±0.096	0.53±0.10
palmitoyl-linoleoyl-glycerol (16:0/18:2) [2]	1.1±0.22	1.7±0.32	0.62±0.096	0.56±0.18
palmitoleoyl-linoleoyl-glycerol (16:1/18:2) [1]	1.4±0.19	2.9±0.31 [‡]	0.59±0.064	0.49±0.071
palmitoyl-arachidonoyl-glycerol (16:0/20:4) [1]	1.1±0.24	1.1±0.22	0.56±0.074	0.54±0.13
oleoyl-oleoyl-glycerol (18:1/18:1) [1]	0.79±0.16	1.8±0.32**	0.55±0.1	0.62±0.12
oleoyl-oleoyl-glycerol (18:1/18:1) [2]	1.2±0.22	2.2±0.37*	0.7±0.13	0.73±0.11
oleoyl-linoleoyl-glycerol (18:1/18:2) [1]	1.2±0.16	1.7±0.15**	0.78±0.066	0.6±0.087
oleoyl-linoleoyl-glycerol (18:1/18:2) [2]	1.0±0.14	1.9±0.16**	0.77±0.058	0.64±0.12
linoleoyl-linoleoyl-glycerol (18:2/18:2) [1]	1.2±0.20	1.7±0.12	0.72±0.10	0.64±0.13
linoleoyl-linolenoyl-glycerol (18:2/18:3) [1]	0.77±0.19	0.72±0.13	0.87±0.10	0.58±0.11
oleoyl-arachidonoyl-glycerol (18:1/20:4) [2]	1.1±0.20	1.4±0.21	0.58±0.087	0.82±0.15
linoleoyl-arachidonoyl-glycerol (18:2/20:4) [1]	1.2±0.21	1.6±0.26	0.8±0.10	0.81±0.16
linoleoyl-arachidonoyl-glycerol (18:2/20:4) [2]	1.0±0.15	1.6±0.21*	0.68±0.082	0.83±0.15
linoleoyl-docosahexaenoyl-glycerol (18:2/22:6) [1]	1.3±0.34	1.7±0.41	1.0±0.15	0.79±0.22
polyunsaturated fatty acids				
myristate (14:0)	1.0±0.095	1.4±0.12*	1.0±0.11	0.89±0.11
myristoleate (14:1n5)	1.1±0.22	1.5±0.21	0.89±0.15	0.83±0.14
pentadecanoate (15:0)	1.0±0.064	1.2±0.10	1.1±0.085	1.1±0.2
palmitate (16:0)	0.98±0.037	1.2±0.067*	0.99±0.073	0.85±0.11
palmitoleate (16:1n7)	1.1±0.10	1.7±0.17*	0.87±0.11	0.72±0.072
margarate (17:0)	0.99±0.037	1.1±0.067	1.1±0.099	0.96±0.14
10-heptadecenoate (17:1n7)	1.0±0.043	1.4±0.089*	1.1±0.13	0.81±0.059
stearate (18:0)	0.97±0.026	1.1±0.07	1.1±0.069	1.1±0.17
oleate/vaccenate (18:1)	0.95±0.076	1.3±0.095*	1.1±0.11	0.95±0.08
nonadecanoate (19:0)	1.2±0.065	0.96±0.099	0.82±0.078	0.64±0.094*
10-nonadecenoate (19:1n9)	1.0±0.047	1.4±0.11*	1.1±0.12	0.79±0.073*
arachidate (20:0)	1.1±0.063	1.5±0.099*	0.72±0.05	0.69±0.11
eicosenoate (20:1)	1.3±0.13	1.7±0.14*	0.79±0.075	0.64±0.12
behenate (22:0)	1.9±0.57	2.1±0.51	1.2±0.33	1.9±0.55

erucate (22:1n9)	1.6±0.22	2.4±0.22*	0.5±0.05	0.48±0.13
polyunsaturated fatty acids				
heneicosapentaenoate (21:5n3)	0.86±0.20	1.1±0.29	0.48±0.072	0.5±0.092
hexadecadienoate (16:2n6)	1.0±0.11	1.5±0.15*	0.94±0.11	0.81±0.059
stearidonate (18:4n3)	0.85±0.07	2.0±0.37*	1.0±0.092	0.84±0.068
eicosapentaenoate (EPA; 20:5n3)	0.98±0.096	1.4±0.15	1.1±0.096	0.83±0.087
docosapentaenoate (n3 DPA; 22:5n3)	1.2±0.14	1.7±0.23*	0.88±0.068	0.75±0.066
docosahexaenoate (DHA; 22:6n3)	0.96±0.13	1.1±0.12	1.1±0.073	0.88±0.10
docosatrienoate (22:3n3)	1.4±0.092	2.4±0.25 ^ϕ	0.8±0.067	0.53±0.048**
nisinate (24:6n3)	1.1±0.11	1.8±0.26**	0.94±0.077	0.63±0.064*
linoleate (18:2n6)	0.98±0.065	1.3±0.095	1.1±0.14	0.92±0.072
linolenate [alpha or gamma; (18:3n3 or 6)]	1.0±0.13	1.3±0.098	1.2±0.15	0.96±0.11
dihomo-linolenate (20:3n3 or n6)	1.1±0.099	1.3±0.12	1.1±0.098	0.79±0.053*
arachidonate (20:4n6)	0.93±0.089	0.90±0.068	1.1±0.059	1.0±0.096
adrenate (22:4n6)	1.2±0.20	1.2±0.12	0.95±0.052	0.9±0.057
docosapentaenoate (n6 DPA; 22:5n6)	1.2±0.14	1.1±0.12	0.96±0.073	0.89±0.061
docosadienoate (22:2n6)	1.3±0.074	1.4±0.21 ^ϕ	0.64±0.053	0.87±0.071
dihomo-linoleate (20:2n6)	1.1±0.075	1.4±0.11*	1.0±0.094	0.79±0.045*
mead acid (20:3n9)	1.1±0.19	1.0±0.12	1.1±0.11	1.1±0.076