

Supplementary Information

90-day nephrotoxicity evaluation of 3-MCPD 1-monoleate and 1-monostearate exposures in Male Sprague-Dawley rats using proteomic analysis

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Figure

Figure S1. Body weights of Sprague Dawley rats during the 90-day experimental period. All values are expressed as the mean \pm SD of 12 rats per group.

Table

Table S1. Organ weights of Sprague Dawley rats after 90-day experimental period

Table S2. Histopathological grades of kidney specimens.

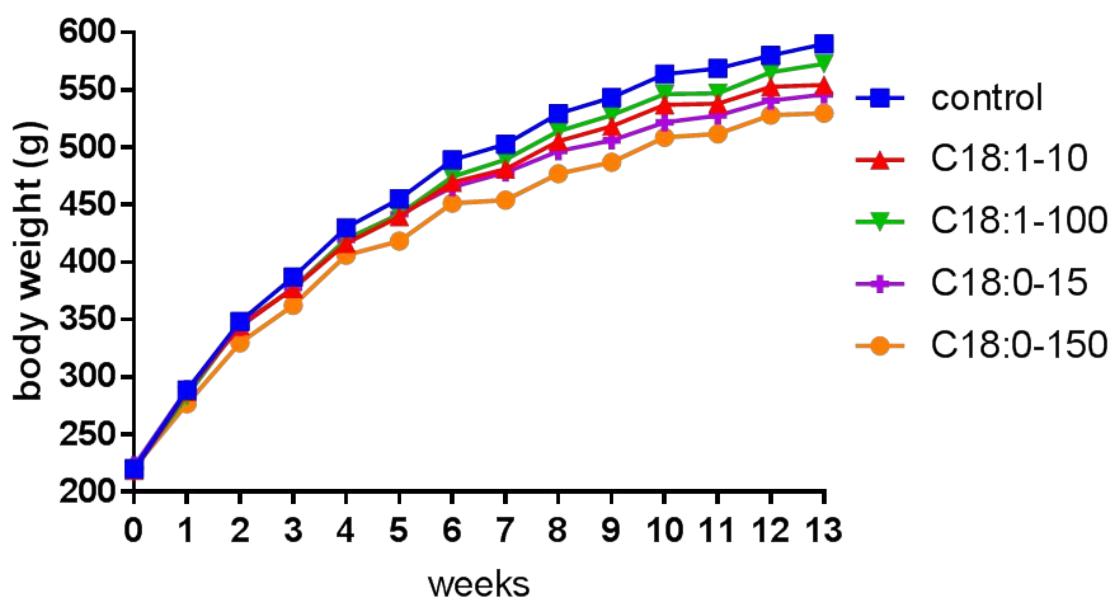


Figure S1.

Table S1. Organ weights of Sprague Dawley rats after 90-day experimental period

Organ(g)	Control	C18:1-10	C18:1-100	C18:0-15	C18:0-150
Heart	1.607 ^a ±0.123	1.555 ^a ±0.183	1.604 ^a ±0.161	1.581 ^a ±0.257	1.642 ^a ±0.193
Liver	14.533 ^a ±1.951	13.535 ^a ±1.622	15.224 ^a ±2.010	14.175 ^a ±2.800	15.150 ^a ±3.316
Spleen	0.904 ^a ±0.193	0.822 ^a ±0.123	0.915 ^a ±0.186	0.867 ^a ±0.184	0.862 ^a ±0.176
Lung	2.211 ^a ±0.217	2.122 ^a ±0.253	2.258 ^a ±0.221	2.112 ^a ±0.235	2.067 ^a ±0.257
Thymus	0.347 ^a ±0.082	0.272 ^a ±0.071	0.265 ^a ±0.089	0.316 ^a ±0.069	0.370 ^a ±0.105
Brain	2.201 ^a ±0.224	1.943 ^a ±0.215	2.068 ^a ±0.105	2.048 ^a ±0.062	2.090 ^a ±0.109
Epididymal fat	11.597 ^a ±3.627	11.247 ^a ±2.856	11.411 ^a ±4.902	10.492 ^a ±5.358	9.199 ^a ±5.424
Perirenal fat	17.512 ^a ±6.143	17.193 ^a ±5.933	16.275 ^a ±5.785	13.682 ^a ±7.171	11.880 ^a ±5.736
Subcutaneous fat	11.019 ^a ±3.857	10.441 ^a ±3.466	10.136 ^a ±3.888	9.325 ^a ±3.694	8.250 ^a ±3.169
Brown fat	0.716 ^a ±0.198	0.613 ^a ±0.144	0.685 ^a ±0.167	0.611 ^a ±0.169	0.508 ^a ±0.117

Data are expressed as the mean ± SD of 12 rats per group. Significant differences among groups are represented with different letters at $P < 0.05$.

Table S2. Histopathological grades of kidney specimens

	Control	C18:1-10	C18:1-100	C18:0-15	C18:0-150
No.1	–	–	++	–	++
No.2	–	–	++	+	++
No.3	–	+	++	–	++
No.4	–	+	++	–	+
No.5	–	–	++	–	++
No.6	–	–	++	–	++

– (no change), + (slight) and ++ (severe).