



**Fig. S1** Effects of DHA or probiotics treatment alone on the Caco-2 cell viabilities, measured using the MTT method.

**Table S1** Effects of DHA and probiotics on sub-chronic PAT exposure-induced alterations in the ALT and AST activities and BUN and SCR levels in serum of mice.

Group	ALT activity (U/L)	AST activity (U/L)	BUN level (mg/dl)	SCR (mg/dl)
Control	28.11 ± 3.03 <sup>a</sup>	60.25 ± 5.33 <sup>a</sup>	21.09 ± 3.21 <sup>a</sup>	0.32 ± 0.057 <sup>a</sup>
PAT	80.54 ± 4.21 <sup>b</sup>	120.02 ± 5.82 <sup>b</sup>	24.86 ± 5.24 <sup>a</sup>	0.37 ± 0.082 <sup>a</sup>
PAT+DHA	59.38 ± 2.02 <sup>c</sup>	78.24 ± 3.12 <sup>c</sup>	25.07 ± 2.09 <sup>a</sup>	0.40 ± 0.107 <sup>a</sup>
PAT+8610	40.07 ± 5.21 <sup>d</sup>	81.03 ± 4.18 <sup>c</sup>	22.17 ± 4.21 <sup>a</sup>	0.40 ± 0.043 <sup>a</sup>
PAT+11	73.02 ± 6.11 <sup>bc</sup>	91.10 ± 3.03 <sup>d</sup>	23.03 ± 2.17 <sup>a</sup>	0.36 ± 0.038 <sup>a</sup>

Values are mean ± SD values with five mice in each group. The superscript letters a, b, c and d indicate statistically significant difference at a *P* value of < 0.05 within each row comparison.

**Table S2** Effects of DHA and probiotics on sub-chronic PAT exposure-induced alterations in the GSH and MDA levels and SOD and CAT activities in the liver of mice.

Group	GSH level (mg/g protein)	MDA level (nmol/g protein)	SOD activity (U/mg protein)	CAT activity (U/mg protein)
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Control	6.21 ± 0.13 <sup>a</sup>	21.03 ± 2.71 <sup>a</sup>	78.08 ± 4.32 <sup>a</sup>	230.55 ± 23.08 <sup>a</sup>
PAT	4.39 ± 0.47 <sup>b</sup>	44.19 ± 3.18 <sup>b</sup>	75.24 ± 2.45 <sup>a</sup>	167.17 ± 20.13 <sup>b</sup>
PAT+DHA	5.18 ± 0.32 <sup>ab</sup>	31.06 ± 1.75 <sup>c</sup>	71.28 ± 2.48 <sup>a</sup>	190.11 ± 5.08 <sup>ab</sup>
PAT+8610	5.58 ± 0.76 <sup>ab</sup>	23.13 ± 2.00 <sup>a</sup>	71.07 ± 4.39 <sup>a</sup>	231.07 ± 8.53 <sup>a</sup>
PAT+11	4.97 ± 0.52 <sup>ab</sup>	38.17 ± 4.10 <sup>bc</sup>	73.28 ± 2.17 <sup>a</sup>	170.20 ± 11.05 <sup>b</sup>

Values are mean ± SD values with five mice in each group. The superscript letters a, b, c and d indicate statistically significant difference at a *P* value of < 0.05 within each row comparison.