

附 錄

Table 1. Absolute organ weights in ovariectomized rats treated with GPT for 12 weeks.

	Brain(g)	Pituitary(mg)	Uterus(g)	Thymus gland(g)	Liver(g)	Heart(g)
Sham	1.96 ± 0.02	18.5 ± 1.0	0.896 ± 0.149	0.31 ± 0.01	7.8 ± 0.3	0.94 ± 0.03
Control	1.92 ± 0.023	14.7 ± 0.6 ^{###}	0.087 ± 0.002 ^{###}	0.45 ± 0.03 [#]	6.9 ± 0.2 [#]	0.92 ± 0.04
E2	1.92 ± 0.06	18.5 ± 1.0 ^{**}	0.421 ± 0.017 ^{**}	0.39 ± 0.03	7.9 ± 0.2 [*]	1.00 ± 0.02
1%GPT	2.00 ± 0.02	14.6 ± 0.6	0.097 ± 0.003	0.40 ± 0.03	7.3 ± 0.2	0.99 ± 0.03
3%GPT	2.02 ± 0.03	14.6 ± 0.5	0.109 ± 0.004	0.48 ± 0.03	8.0 ± 0.3 [*]	1.02 ± 0.03
5%GPT	1.99 ± 0.03	15.1 ± 0.4	0.099 ± 0.004	0.50 ± 0.04	7.9 ± 0.2 ^{**}	0.98 ± 0.03

	Kidney-left(g)	Kidney-right(g)	Adrenal gland (left)(mg)	Adrenal gland (right)(mg)
Sham	0.89 ± 0.03	0.91 ± 0.03	28.3 ± 2.2	25.0 ± 1.6
Control	0.82 ± 0.03	0.84 ± 0.03	16.5 ± 0.9 ^{###}	19.1 ± 0.7 ^{##}
E2	0.91 ± 0.01	0.96 ± 0.02 [*]	21.3 ± 1.5 [*]	23.7 ± 0.7 [*]
1%GPT	0.86 ± 0.03	0.90 ± 0.02	18.3 ± 1.0	19.9 ± 1.1
3%GPT	0.91 ± 0.02	0.92 ± 0.03	17.6 ± 0.9	18.3 ± 1.1
5%GPT	0.90 ± 0.03	0.90 ± 0.02	17.6 ± 0.8	20.6 ± 1.2

All values are means ± S.E. # p<0.05, ## p<0.01 compared with sham operated group. * p<0.05, **p<0.01 compared with control group.

Table 2. Relative organ weights in ovariectomized rats treated with GPT for 12 weeks.

(g/100 body weight)

	Brain(g)	Pituitary(mg)	Uterus(g)	Thymus gland(g)	Liver(g)	Heart(g)
Sham	0.59 ± 0.01	5.5 ± 0.3	0.269 ± 0.048	0.090 ± 0.003	2.29 ± 0.08	0.282 ± 0.007
Control	0.49 ± 0.02 ^{###}	3.8 ± 0.2 ^{###}	0.024 ± 0.001 ^{###}	0.112 ± 0.007	1.88 ± 0.04 ^{###}	0.243 ± 0.005 ^{###}
E2	0.57 ± 0.01 ^{***}	5.3 ± 0.1 ^{***}	0.121 ± 0.005*	0.106 ± 0.003	2.29 ± 0.03 ^{***}	0.295 ± 0.008 ^{***}
1%GPT	0.52 ± 0.02	3.8 ± 0.2	0.025 ± 0.001	0.099 ± 0.005	1.93 ± 0.02	0.225 ± 0.007
3%GPT	0.51 ± 0.01	3.6 ± 0.1	0.027 ± 0.001	0.120 ± 0.006	1.95 ± 0.02	0.257 ± 0.003
5%GPT	0.49 ± 0.01	3.6 ± 0.1	0.024 ± 0.001	0.120 ± 0.010	2.03 ± 0.04	0.243 ± 0.007

	Kidney-left(g)	Kidney-right(g)	Adrenal gland (left)(mg)	Adrenal gland (right)(mg)
Sham	0.26 ± 0.01	0.24 ± 0.03	6.5 ± 0.4	7.4 ± 0.5
Control	0.22 ± 0.003 ^{###}	0.22 ± 0.01	4.4 ± 0.3 ^{###}	5.1 ± 0.3 ^{###}
E2	0.26 ± 0.01 ^{***}	0.27 ± 0.01	6.0 ± 0.4 ^{**}	6.9 ± 0.2 ^{**}
1%GPT	0.22 ± 0.01	0.23 ± 0.01	4.5 ± 0.3	5.0 ± 0.3
3%GPT	0.23 ± 0.01	0.23 ± 0.01	4.2 ± 0.2	4.7 ± 0.3
5%GPT	0.21 ± 0.01	0.22 ± 0.01	4.1 ± 0.2	5.1 ± 0.3

All values are means ± S.E. # p<0.05, ## p<0.01 compared with sham operated group..* p<0.05,**p<0.01 compared with control group.

Table 3 Blood chemistry findings in ovariectomized rats treated with GPT for 12 weeks.

	GOT(U/L)	GPT(U/L)	ALP(U/L)	ACPP(U/L)	TG(mg/dl)	CHOL(mg/dl)
Sham	117.6 ± 6.4	27.6 ± 2.6	29.5 ± 1.5	11.9 ± 0.9	142.5 ± 4.1	27.80 ± 1.38
Control	140.0 ± 8.4 [#]	31.2 ± 2.1	54.7 ± 3.6 ^{###}	18.8 ± 1.6 ^{##}	139.4 ± 3.9	41.49 ± 2.74 ^{###}
E2	96.9 ± 3.9 ^{***}	23.9 ± 1.3 [*]	33.9 ± 1.3 ^{***}	9.9 ± 0.8 ^{***}	151.3 ± 4.9	36.58 ± 1.12
1%GPT	143.1 ± 8.2	29.5 ± 2.5	41.3 ± 3.3 ^{**}	16.5 ± 1.6	150.0 ± 4.9	37.92 ± 2.57
3%GPT	141.0 ± 6.6	26.1 ± 0.8	51.4 ± 2.5	19.5 ± 2.1	144.6 ± 4.1	38.14 ± 2.15
5%GPT	119.2 ± 3.0	25.4 ± 2.7	42.3 ± 1.3 ^{**}	13.2 ± 1.1 [*]	138.3 ± 2.4	37.46 ± 1.66

	ALB(g/dl)	TP(g/dl)	Ca(mEq/dl)	P(mEq/dl)
Sham	3.51 ± 0.06	6.8 ± 0.1	10.5 ± 0.1	5.9 ± 0.2
Control	3.09 ± 0.05 ^{###}	6.2 ± 0.1 ^{###}	9.9 ± 0.1 ^{##}	5.7 ± 0.2
E2	3.60 ± 0.08 ^{***}	7.1 ± 0.1 ^{***}	10.8 ± 0.1 ^{***}	5.9 ± 0.2
1%GPT	2.98 ± 0.09	6.3 ± 0.1	10.1 ± 0.1	5.2 ± 0.3
3%GPT	3.02 ± 0.06	6.3 ± 0.1	10.1 ± 0.03	5.3 ± 0.2
5%GPT	3.00 ± 0.05	6.2 ± 0.1	10.0 ± 0.1	6.1 ± 0.1

All values are means ± S.E. [#] p<0.05, ^{##} p<0.01, ^{###} p<0.001 compared with sham operated group. ^{*} p<0.05, ^{**} p<0.01, ^{***} p<0.001 compared with control group. CHOL:cholesterol ALB:albumin TP: total protein

Table 4 Urinary findings in ovariectomized rats treated with GPT for 12weeks.

	Volume (ml/24hrs)	Na ⁺ (mMol/24hrs)	K ⁺ (mMol/24hrs)	Cl ⁻ (mMol/24hrs)	pH	Ca (mg/24hrs)
Sham	22.0 ± 1.8	2.4 ± 0.1	2.8 ± 0.2	10.9 ± 0.6	6	201.4 ± 30.7
Control	24.6 ± 2.8	2.3 ± 0.2	2.4 ± 0.2	6.7 ± 1.5	6	93.3 ± 19.3 ^{##}
E2	26.3 ± 2.8	2.2 ± 0.3	2.5 ± 0.6	8.7 ± 1.6	6	139.0 ± 12.6
1%GPT	22.8 ± 2.6	2.4 ± 0.2	2.9 ± 0.1	9.4 ± 1.7	6	106.6 ± 19.1
3%GPT	22.0 ± 1.5	2.1 ± 0.1	2.5 ± 0.2	8.3 ± 0.8	6	132.2 ± 28.0
5%GPT	25.8 ± 3.4	2.0 ± 0.4	2.0 ± 0.2	7.7 ± 2.1	6	134.7 ± 10.4

All values are means ± S.E. # p<0.05, ## p<0.01, ### p<0.001 compared with sham operated group. * p<0.05, **p<0.01 ***p<0.001 compared with control group. CHOL:cholesterol ALB:albumin TP: total protein