

M04: Hematology

Study Number: I20045

Test Compound: Phenanthrene

Date: 03 Sep 2024

DTTID: 103-005-012-000-2

CAS Number: 85-01-8

Time: 2:26:32 PM

Study Type: Immune screening

DTXSID: DTXSID6024254

Species/Strain: Mouse/B6C3F1/N

Females: Immunopath Cohort

	Treatment Groups							
	0 mg/kg	12.5 mg/kg	25 mg/kg	50 mg/kg	100 mg/kg	200 mg/kg	400 mg/kg	50 mg/kg CPS
Absolute counts								
Erythrocyte (x10 ⁶)	10.252 ± 0.149[6]	10.344 ± 0.128[7]	10.402 ± 0.113[6]	10.494 ± 0.249[5]	10.348 ± 0.076[5]	10.346 ± 0.070[7]	10.195 ± 0.130[8]	8.881 ± 0.084[8]**
Hemoglobin (g/dL)	15.35 ± 0.21[6]	15.60 ± 0.16[7]	15.45 ± 0.20[6]	15.84 ± 0.30[5]	15.60 ± 0.16[5]	15.57 ± 0.11[7]	15.19 ± 0.21[8]	13.46 ± 0.13[8]**
Hematocrit (%)	50.50 ± 0.85[6]	51.53 ± 0.68[7]	50.83 ± 0.47[6]	52.26 ± 1.03[5]	50.82 ± 0.42[5]	50.93 ± 0.36[7]	50.36 ± 0.69[8]	44.45 ± 0.47[8]**
MCV (fL)	49.25 ± 0.23[6]	49.80 ± 0.27[7]	48.87 ± 0.32[6]	49.78 ± 0.40[5]	49.14 ± 0.29[5]	49.21 ± 0.28[7]	49.40 ± 0.25[8]	50.04 ± 0.24[8]*
MCH (pg)	14.98 ± 0.06[6]	15.06 ± 0.11[7]	14.87 ± 0.16[6]	15.10 ± 0.14[5]	15.06 ± 0.10[5]	15.06 ± 0.08[7]	14.90 ± 0.06[8]	15.16 ± 0.05[8]*
MCHC (g/dL)	30.40 ± 0.18[6]	30.29 ± 0.23[7]	30.45 ± 0.23[6]	30.34 ± 0.09[5]	30.68 ± 0.39[5]	30.57 ± 0.19[7]	30.15 ± 0.13[8]	30.26 ± 0.11[8]
Platelets (x10 ³)	1001.2 ± 68.5[6]**	992.3 ± 24.3[7]	1012.7 ± 53.9[6]	946.4 ± 62.1[5]	1063.4 ± 44.8[5]	1076.4 ± 72.8[7]	1298.8 ± 48.5[8]*	1237.8 ± 36.2[8]**
Leukocyte (x10 ³)	5.01 ± 0.60[6]	3.96 ± 0.45[7]	4.42 ± 0.73[6]	4.97 ± 0.35[5]	4.70 ± 0.51[5]	4.32 ± 0.33[7]	4.48 ± 0.66[8]	1.46 ± 0.14[8]**
Reticulocytes (x10 ³)	327.03 ± 24.11[6]	340.46 ± 13.67[7]	327.83 ± 15.02[6]	389.36 ± 20.16[5]	408.16 ± 38.36[5]	327.24 ± 36.50[7]	320.46 ± 15.78[8]	82.85 ± 16.88[8]**
Relative counts								
Percent Reticulocytes (%)	3.200 ± 0.263[6]	3.287 ± 0.105[7]	3.152 ± 0.137[6]	3.706 ± 0.141[5]	3.946 ± 0.370[5]	3.157 ± 0.341[7]	3.143 ± 0.148[8]	0.934 ± 0.192[8]**

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LEGEND

Data are displayed as mean \pm SEM (N) unless otherwise noted.

Statistical analysis performed by Jonckheere (trend) and Shirley or Dunn (pairwise) tests. The positive control group (50 mg/kg CPS) was excluded from trend test.

Statistical analysis for the positive control group (50 mg/kg CPS) compared to the vehicle control group was performed using the Wilcoxon rank sum test.

Statistical significance for the control group indicates a significant trend test.

Statistical significance for a treatment group indicates a significant pairwise test compared to the vehicle control group.

* Statistically significant at $P \leq 0.05$

** Statistically significant at $P \leq 0.01$

SEM = Standard Error of the Mean

MCV = Mean Corpuscular Volume; MCH = Mean Corpuscular Hemoglobin, MCHC = Mean Cell Hemoglobin Concentration

SD = Study Day

CPS = Cyclophosphamide

Females from the vehicle control and treatment groups were removed on SD 28.

** END OF REPORT **