

M03: Peripheral Blood Leukocyte Cell Differential

Study Number: I20045

Test Compound: Phenanthrene

Date: 03 Sep 2024

DTTID: 103-005-012-000-2

CAS Number: 85-01-8

Time: 2:25:01 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
Leukocytes (x10 ³ /μL)	5.007 ± 0.600[6]	3.961 ± 0.452[7]	4.417 ± 0.731[6]	4.968 ± 0.353[5]	4.700 ± 0.513[5]	4.324 ± 0.329[7]	4.475 ± 0.658[8]	1.455 ± 0.142[8]**
Absolute counts								
Lymphocytes (x10 ³ /μL)	4.282 ± 0.500[6]	3.437 ± 0.381[7]	3.792 ± 0.626[6]	4.298 ± 0.345[5]	3.936 ± 0.427[5]	3.714 ± 0.242[7]	3.869 ± 0.575[8]	1.308 ± 0.125[8]**
Neutrophils (x10 ³ /μL)	0.473 ± 0.072[6]	0.366 ± 0.056[7]	0.428 ± 0.100[6]	0.418 ± 0.040[5]	0.566 ± 0.104[5]	0.401 ± 0.050[7]	0.434 ± 0.064[8]	0.103 ± 0.019[8]**
Monocytes (x10 ³ /μL)	0.092 ± 0.012[6]	0.050 ± 0.008[7]	0.075 ± 0.015[6]	0.074 ± 0.005[5]	0.070 ± 0.013[5]	0.069 ± 0.010[7]	0.060 ± 0.012[8]	0.014 ± 0.002[8]**
Eosinophils (x10 ³ /μL)	0.133 ± 0.024[6]	0.084 ± 0.017[7]	0.095 ± 0.014[6]	0.150 ± 0.058[5]	0.094 ± 0.025[5]	0.113 ± 0.048[7]	0.085 ± 0.021[8]	0.018 ± 0.003[8]**
Basophils (x10 ³ /μL)	0.007 ± 0.002[6]	0.004 ± 0.002[7]	0.005 ± 0.003[6]	0.008 ± 0.004[5]	0.008 ± 0.004[5]	0.006 ± 0.002[7]	0.005 ± 0.002[8]	0.000 ± 0.000[8]**
Large Unstained Cells (x10 ³ /μL)	0.020 ± 0.004[6]	0.019 ± 0.005[7]	0.025 ± 0.005[6]	0.024 ± 0.002[5]	0.026 ± 0.009[5]	0.019 ± 0.004[7]	0.021 ± 0.004[8]	0.013 ± 0.004[8]
Relative counts								
Percent Lymphocytes (%)	85.72 ± 0.63[6]	86.93 ± 0.92[7]	85.62 ± 1.38[6]	86.28 ± 1.24[5]	83.88 ± 1.90[5]	86.29 ± 1.18[7]	86.34 ± 0.71[8]	90.10 ± 0.68[8]**
Percent Neutrophils (%)	9.33 ± 0.56[6]	9.19 ± 0.77[7]	9.77 ± 1.18[6]	8.60 ± 1.10[5]	11.90 ± 1.44[5]	9.21 ± 0.64[7]	9.94 ± 0.57[8]	6.81 ± 0.60[8]*
Percent Monocytes (%)	1.82 ± 0.08[6]	1.17 ± 0.09[7]*	1.62 ± 0.16[6]	1.48 ± 0.11[5]	1.54 ± 0.25[5]	1.60 ± 0.14[7]	1.28 ± 0.14[8]	1.03 ± 0.07[8]**
Percent Eosinophils (%)	2.63 ± 0.24[6]*	2.10 ± 0.31[7]	2.40 ± 0.39[6]	3.00 ± 1.16[5]	2.00 ± 0.41[5]	2.33 ± 0.76[7]	1.86 ± 0.31[8]	1.24 ± 0.24[8]**
Percent Basophils (%)	0.15 ± 0.02[6]	0.13 ± 0.02[7]	0.13 ± 0.02[6]	0.18 ± 0.04[5]	0.18 ± 0.04[5]	0.14 ± 0.02[7]	0.15 ± 0.03[8]	0.06 ± 0.03[8]*
Percent Large Unstained Cells (%)	0.38 ± 0.03[6]	0.47 ± 0.05[7]	0.52 ± 0.07[6]	0.46 ± 0.04[5]	0.56 ± 0.17[5]	0.44 ± 0.06[7]	0.43 ± 0.06[8]	0.78 ± 0.14[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

SD = Study Day

CPS = Cyclophosphamide

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

** END OF REPORT **