

M03: Peripheral Blood Leukocyte Cell Differential

Study Number: I20263
 DTTID: 104-016-002-000-4
 Study Type: Immune screening with perinatal exposure
 Species/Strain: Rat/Harlan Sprague Dawley

Test Compound: Tris(chloropropyl) phosphate
 CAS Number: 13674-84-5
 DTXSID: DTXSID201016652

Date: 28 May 2024
 Time: 4:27:18 PM

F1 Males: Immunopath

	Treatment Groups (ppm)				
	0	2500	5000	10000	15 (mg/kg CPS)
Leukocytes (x10 ³ /μL)	8.798 ± 0.350[12]	8.443 ± 0.377[12]	9.198 ± 0.356[12]	8.751 ± 0.970[11]	4.189 ± 0.573[8]**
Absolute counts					
Lymphocytes (x10 ³ /μL)	7.587 ± 0.319[12]	7.311 ± 0.333[12]	7.903 ± 0.336[12]	7.312 ± 0.655[11]	2.004 ± 0.170[8]**
Neutrophils (x10 ³ /μL)	0.881 ± 0.088[12]	0.787 ± 0.059[12]	0.909 ± 0.057[12]	1.016 ± 0.266[11]	2.020 ± 0.674[8]
Monocytes (x10 ³ /μL)	0.145 ± 0.005[12]	0.139 ± 0.018[12]	0.157 ± 0.016[12]	0.238 ± 0.090[11]	0.073 ± 0.014[8]**
Eosinophils (x10 ³ /μL)	0.078 ± 0.011[12]	0.094 ± 0.013[12]	0.096 ± 0.007[12]	0.085 ± 0.012[11]	0.061 ± 0.011[8]
Basophils (x10 ³ /μL)	0.053 ± 0.005[12]	0.052 ± 0.007[12]	0.066 ± 0.009[12]	0.046 ± 0.008[11]	0.014 ± 0.003[8]**
Large Unstained Cells (x10 ³ /μL)	0.055 ± 0.005[12]	0.058 ± 0.009[12]	0.069 ± 0.007[12]	0.052 ± 0.009[11]	0.016 ± 0.002[8]**
Relative counts					
Percent Lymphocytes (%)	86.18 ± 1.03[12]	86.63 ± 0.71[12]	85.80 ± 0.72[12]	84.80 ± 1.61[11]	55.55 ± 8.87[8]**
Percent Neutrophils (%)	10.05 ± 0.94[12]	9.39 ± 0.66[12]	10.03 ± 0.65[12]	10.81 ± 1.21[11]	40.43 ± 8.94[8]**
Percent Monocytes (%)	1.68 ± 0.08[12]	1.63 ± 0.18[12]	1.69 ± 0.16[12]	2.31 ± 0.50[11]	1.61 ± 0.13[8]
Percent Eosinophils (%)	0.88 ± 0.11[12]	1.11 ± 0.14[12]	1.04 ± 0.08[12]	0.98 ± 0.11[11]	1.58 ± 0.34[8]*
Percent Basophils (%)	0.59 ± 0.05[12]	0.60 ± 0.07[12]	0.71 ± 0.09[12]	0.50 ± 0.04[11]	0.35 ± 0.07[8]*
Percent Large Unstained Cells (%)	0.63 ± 0.05[12]	0.66 ± 0.09[12]	0.74 ± 0.06[12]	0.57 ± 0.04[11]	0.40 ± 0.05[8]*

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F1 Females: Immunopath

	Treatment Groups (ppm)				
	0	2500	5000	10000	15 (mg/kg CPS)
Leukocytes (x10 ³ /μL)	7.854 ± 0.598[12]	7.406 ± 0.522[11]	7.736 ± 0.337[12]	7.703 ± 0.356[11]	2.455 ± 0.206[8]**
Absolute counts					
Lymphocytes (x10 ³ /μL)	6.703 ± 0.500[12]	6.369 ± 0.442[11]	6.520 ± 0.273[12]	6.331 ± 0.349[11]	1.870 ± 0.145[8]**
Neutrophils (x10 ³ /μL)	0.788 ± 0.072[12]*	0.698 ± 0.076[11]	0.862 ± 0.067[12]	1.045 ± 0.083[11]	0.480 ± 0.092[8]*
Monocytes (x10 ³ /μL)	0.115 ± 0.013[12]	0.113 ± 0.013[11]	0.119 ± 0.013[12]	0.124 ± 0.011[11]	0.035 ± 0.006[8]**
Eosinophils (x10 ³ /μL)	0.128 ± 0.026[12]	0.119 ± 0.012[11]	0.098 ± 0.013[12]	0.092 ± 0.012[11]	0.046 ± 0.007[8]**
Basophils (x10 ³ /μL)	0.063 ± 0.010[12]	0.050 ± 0.006[11]	0.067 ± 0.009[12]	0.051 ± 0.007[11]	0.008 ± 0.002[8]**
Large Unstained Cells (x10 ³ /μL)	0.057 ± 0.007[12]	0.056 ± 0.005[11]	0.070 ± 0.008[12]	0.063 ± 0.011[11]	0.019 ± 0.004[8]**
Relative counts					
Percent Lymphocytes (%)	85.34 ± 0.86[12]**	86.15 ± 0.73[11]	84.39 ± 0.58[12]	81.95 ± 1.19[11]*	76.85 ± 2.56[8]**
Percent Neutrophils (%)	10.18 ± 0.72[12]**	9.35 ± 0.61[11]	11.08 ± 0.69[12]	13.74 ± 1.13[11]**	18.83 ± 2.61[8]**
Percent Monocytes (%)	1.45 ± 0.08[12]	1.51 ± 0.12[11]	1.53 ± 0.15[12]	1.65 ± 0.19[11]	1.43 ± 0.20[8]
Percent Eosinophils (%)	1.61 ± 0.23[12]	1.57 ± 0.13[11]	1.23 ± 0.14[12]	1.23 ± 0.15[11]	1.93 ± 0.28[8]
Percent Basophils (%)	0.75 ± 0.08[12]	0.67 ± 0.04[11]	0.85 ± 0.10[12]	0.66 ± 0.08[11]	0.30 ± 0.05[8]**
Percent Large Unstained Cells (%)	0.70 ± 0.06[12]	0.75 ± 0.04[11]	0.90 ± 0.10[12]	0.78 ± 0.14[11]	0.71 ± 0.12[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 (15 mg/kg CPS) was excluded from trend test.

Statistical analysis for the positive control group (15 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

Males from the vehicle control and treatment groups were removed on SD 91-92; females were removed on SD 84-85.

Animals from the positive control group (15 mg/kg CPS) were purchased from a commercial source, age matched to the F1 animals, and removed on the same day as the F1 animals.

** END OF REPORT **