

M07: TDAR SRBC: Spleen AFC

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: 06 Jun 2024

Time: 9:09:22 AM

F1 Males: SRBC

	Treatment Groups (ppm)				
	0	2500	5000	10000	15 (mg/kg CPS)
Spleen Weight (g)	0.734 ± 0.033[12]*	0.678 ± 0.022[12]	0.675 ± 0.024[12]	0.644 ± 0.027[12]	0.508 ± 0.015[5]**
Spleen Cells (x10 ⁶)	181.91 ± 18.98[12]	200.68 ± 18.30[12]	230.29 ± 21.31[12]	213.95 ± 26.93[12]	76.53 ± 22.41[5]**
AFC/10 ⁶ Spleen Cells	480.4 ± 90.3[12]**	305.2 ± 82.7[12]	83.0 ± 26.1[12]**	120.0 ± 31.9[11]**	0.0 ± 0.0[5]**
AFC/Spleen (x10 ²)	805.0 ± 140.2[12]**	511.9 ± 90.1[12]	186.9 ± 63.4[12]**	227.7 ± 54.4[11]**	0.0 ± 0.0[5]**

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F1 Females: SRBC

	Treatment Groups (ppm)				
	0	2500	5000	10000	15 (mg/kg CPS)
Spleen Weight (g)	0.560 ± 0.029[12]	0.564 ± 0.018[12]	0.532 ± 0.015[12]	0.519 ± 0.021[12]	0.407 ± 0.023[5]**
Spleen Cells (x10 ⁶)	266.21 ± 27.39[12]*	244.77 ± 30.90[12]	193.66 ± 13.67[12]	195.11 ± 20.87[12]	101.22 ± 16.95[5]**
AFC/10 ⁶ Spleen Cells	287.1 ± 74.7[12]*	240.5 ± 77.1[12]	248.1 ± 50.2[12]	94.8 ± 38.9[12]*	11.7 ± 5.5[5]**
AFC/Spleen (x10 ²)	658.8 ± 170.0[12]**	621.3 ± 184.6[12]	470.6 ± 106.9[12]	166.3 ± 60.8[12]**	9.0 ± 4.4[5]**

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LEGEND

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

Statistical analysis was performed by Jonckheere (trend) and then a pairwise test. Williams/Dunnett pairwise tests are used for organ weights, Shirley/Dunn pairwise tests are used for all other endpoints. The positive control group (15 mg/kg CPS) was excluded from the trend test.

Statistical analysis for the positive control group (15 mg/kg CPS) compared to the vehicle control group was performed using a t-test for organ weights and a Wilcoxon rank sum test for all other endpoints.

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 $P \leq 0.01$

TDAR = T-Dependent Antibody Response; SRBC = Sheep Red Blood Cells; AFC = Antibody-Forming Cells

SEM = Standard Error of the Mean

SD = Study Day

CPS = Cyclophosphamide

Males from the vehicle control and treatment groups were removed on SD 115; females were removed on SD 109.

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 **