M12: Cytotoxic T Cell Activity

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: 5:22:08 PM

F1 Males: CTL

	Treatment Groups (ppm)				
	0	2500	5000	10000	15 (mg/kg CPS)
CTL Activity (12.5:1)[a]	8.27 ± 1.22[12]	7.74 ± 1.29[11]	5.64 ± 0.56[12]	8.39 ± 1.63[12]	1.73 ± 0.52[8]**
CTL Activity (25:1)	20.66 ± 2.22[12]	19.62 ± 2.77[11]	13.98 ± 1.16[12]	17.02 ± 3.26[12]	2.42 ± 0.68[8]**
CTL Activity (50:1)	32.35 ± 3.01[12]	32.13 ± 3.36[11]	25.63 ± 1.89[12]	26.54 ± 4.22[12]	2.13 ± 0.82[8]**

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F1 Females: CTL

	Treatment Groups (ppm)				
	0	2500	5000	10000	15 (mg/kg CPS)
CTL Activity (12.5:1)[a]	14.57 ± 1.47[12]	14.25 ± 1.63[12]	10.76 ± 0.92[11]	14.73 ± 1.21[12]	2.88 ± 1.59[8]**
CTL Activity (25:1)	32.28 ± 2.95[12]	31.27 ± 2.65[12]	27.40 ± 1.75[11]	33.98 ± 2.11[12]	6.47 ± 5.23[8]**
CTL Activity (50:1)	51.18 ± 2.86[12]	46.34 ± 2.25[12]	45.52 ± 1.74[11]	51.50 ± 2.27[12]	10.27 ± 8.96[8]**

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LEGEND

Data are displayed as mean ± SEM (N) of effector: target cell ratio unless otherwise noted.

[a]CTL Activity is expressed as % target cell killing calculated as ((Sample Cr^{51} Release - Spontaneous Cr^{51} Release) / (Total Cr^{51} Release - Spontaneous Cr^{51} Release))*100

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 $P \leq 0.01$

CTL = Cytotoxic T Lymphocytes

SEM = Standard Error of the Mean

SD = Study Day

CPS = Cyclophosphamide

Males from the vehicle control and treatment groups were removed on SD 101-102; females were removed on SD 96-97.

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 **