

## M15: Natural Killer 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: 5:36:46 PM

F1 Males: Immunophenotyping

	Treatment Groups (ppm)				
	0	2500	5000	10000	15 (mg/kg CPS)
NK Cell Activity (12.5:1)	19.89 ± 1.85[12]	15.72 ± 1.20[12]	17.23 ± 1.11[12]	17.67 ± 1.16[11]	22.64 ± 2.15[8]
NK Cell Activity (25:1)	30.45 ± 2.44[12]	25.37 ± 1.66[12]	27.64 ± 1.29[12]	29.25 ± 1.58[11]	35.94 ± 3.00[8]
NK Cell Activity (50:1)	41.72 ± 2.62[12]	37.53 ± 2.00[12]	41.20 ± 1.78[12]	41.96 ± 1.74[11]	49.36 ± 2.99[8]

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F1 Females: Immunophenotyping

	Treatment Groups (ppm)				
	0	2500	5000	10000	15 (mg/kg CPS)
NK Cell Activity (12.5:1)	16.55 ± 1.68[12]	14.51 ± 1.11[12]	19.66 ± 1.73[12]	16.75 ± 1.37[12]	18.47 ± 1.77[8]
NK Cell Activity (25:1)	25.99 ± 2.19[12]	23.85 ± 1.47[12]	30.92 ± 2.59[12]	28.82 ± 2.11[12]	31.18 ± 2.70[8]
NK Cell Activity (50:1)	36.68 ± 2.57[12]	36.49 ± 1.57[12]	42.63 ± 2.85[12]	42.03 ± 2.29[12]	45.41 ± 2.41[8]*

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### LEGEND

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

NK Cell Activity is expressed as % target cell killing, calculated as  $((\text{Sample Cr}^{51} \text{ Release} - \text{Spontaneous Cr}^{51} \text{ Release}) / (\text{Total Cr}^{51} \text{ Release} - \text{Spontaneous Cr}^{51} \text{ Release})) * 100$

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  $P \leq 0.01$

NK = Natural Killer

SEM = Standard Error of the Mean

SD = Study Day

CPS = Cyclophosphamide

Males from the vehicle control and treatment groups were removed on SD 97; females were removed on SD 89.

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 \*\***