

M07: TDAR SRBC: Spleen AFC

Study Number: I10353

Test Compound: Benzo(a)pyrene

Date: 03 Sep 2024

DTTID: 103-005-002-000-1

CAS Number: 50-32-8

Time: 12:57:53 PM

Study Type: Immune screening

DTXSID: DTXSID2020139

Species/Strain: Mouse/B6C3F1/N

Females: SRBC

	Treatment Groups									
	0 mg/kg	2 mg/kg	5 mg/kg	9 mg/kg	19 mg/kg	38 mg/kg	75 mg/kg	150 mg/kg	50 mg/kg CPS	
Spleen Weight (g)	0.101 ± 0.004[s]**	0.095 ± 0.006[s]	0.095 ± 0.004[s]	0.085 ± 0.004[s]**	0.083 ± 0.002[s]**	0.079 ± 0.005[s]**	0.070 ± 0.002[s]**	0.060 ± 0.002[s]**	0.052 ± 0.002[s]**	
Spleen Cells (x10 ⁶)	103.16 ± 5.28[s]**	90.68 ± 8.63[s]	85.58 ± 4.75[s]	80.29 ± 7.14[s]*	68.74 ± 4.78[s]**	68.21 ± 6.66[s]**	59.74 ± 4.20[s]**	49.09 ± 2.90[s]**	26.14 ± 1.66[s]**	
AFC/10 ⁶ Spleen Cells	1038.2 ± 115.5[s]**	795.0 ± 91.1[s]	650.8 ± 75.7[s]*	307.0 ± 67.6[s]**	253.9 ± 47.8[s]**	188.1 ± 32.5[s]**	91.7 ± 17.5[s]**	44.5 ± 13.1[s]**	0.0 ± 0.0[s]**	
AFC/Spleen (x10 ²)	1065.9 ± 118.3[s]**	721.1 ± 105.6[s]*	538.3 ± 45.2[s]**	262.7 ± 64.1[s]**	163.1 ± 24.1[s]**	131.6 ± 33.5[s]**	56.3 ± 13.0[s]**	21.4 ± 5.6[s]**	0.0 ± 0.0[s]**	

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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 (50 mg/kg CPS) was excluded from the trend test.

Statistical analysis for the positive control group (50 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

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

** END OF REPORT **