

Study Number: I10482B

Test Type: TOX

Route: Dosing in Feed

Species/Strain: Rat/Harlan Sprague Dawley

Study Number:

Study Gender:

PWG Approval Date:

Version:

M15: Natural Killer Cell Activity

Test Compound: N-Butylbenzenesulfonamide

CAS Number: 3622-84-2

I10482B

Both

See web page for date of PWG Approval

v1.2.0

Date Report Requested: 04/13/2021

Time Report Requested: 07:19:22

Lab: Burleson Research Technologies

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F1 Males: Immunophenotyping

Treatment Groups (ppm)

	0	250	500	1000	15 mg/kg CPS
NK Cell Activity (12.5:1)	10.00 ± 0.93 (12) **	8.79 ± 0.92 (12)	11.77 ± 0.73 (11)	12.86 ± 0.69 (12) *	13.67 ± 1.76 (8)
NK Cell Activity (25:1)	14.93 ± 1.36 (12) **	13.62 ± 1.38 (12)	18.07 ± 1.21 (11)	20.39 ± 1.19 (12) *	20.44 ± 2.35 (8)
NK Cell Activity (50:1)	23.58 ± 1.86 (12) **	22.58 ± 2.06 (12)	27.17 ± 1.70 (11)	29.85 ± 1.48 (12) *	31.70 ± 3.31 (8) *

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F1 Females: Immunophenotyping

Treatment Groups (ppm)

	0	250	500	1000	15 mg/kg CPS
NK Cell Activity (12.5:1)	13.62 ± 1.08 (12) **	9.73 ± 0.74 (12) *	8.79 ± 0.98 (12) **	8.93 ± 0.95 (12) **	13.41 ± 1.78 (8)
NK Cell Activity (25:1)	22.50 ± 1.62 (12) *	17.10 ± 1.33 (12)	15.95 ± 1.60 (12) *	17.10 ± 1.75 (12)	22.87 ± 2.83 (8)
NK Cell Activity (50:1)	34.17 ± 2.13 (12)	29.30 ± 1.53 (12)	28.01 ± 2.02 (12)	30.12 ± 2.38 (12)	34.21 ± 2.82 (8)

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LEGEND

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

Data displayed as a mean of (effector cell:target cell ratio)

NK - Natural Killer

NK Cell Activity is expressed as % target cell killing calculated as (sample Cr51 release - spontaneous Cr51 release / total Cr51 release - spontaneous Cr51 release)

Statistical analysis were performed by Jonckheere (trend) and Shirley or Dunn (pairwise) tests.

Statistical analysis for the positive control group compared to the vehicle control group was performed using the Kruskal-Wallis 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 $P \leq 0.01$

CPS = Cyclophosphamide

**** END OF REPORT ****