

## M15: Natural Killer Cell Activity

Study Number: I07062B

DTTID: 108-006-006-000-1

Study Type: Immune screening

Species/Strain: Mouse/B6C3F1/N

Test Compound: 1020 Long Multiwalled Carbon Nanotubes

CAS Number: L-MWNT-1020

DTXSID: DTXSID601356181

Date: 29 Aug 2024

Time: 3:49:26 PM

Females: NK

	Treatment Groups				
	0 mg/m <sup>3</sup>	0.06 mg/m <sup>3</sup>	0.2 mg/m <sup>3</sup>	0.6 mg/m <sup>3</sup>	50 mg/kg CPS
NK Cell Activity (5:1)	17.29 ± 1.70[8]	16.12 ± 2.05[7]	16.50 ± 0.76[7]	13.44 ± 1.18[8]	3.69 ± 0.66[8]**
NK Cell Activity (10:1)	24.07 ± 2.06[8]	22.63 ± 2.56[7]	23.94 ± 1.27[7]	19.31 ± 1.54[8]	5.15 ± 1.04[6]**
NK Cell Activity (20:1)	28.27 ± 3.05[7]	27.81 ± 3.17[7]	30.06 ± 1.89[7]	22.77 ± 0.65[5]	

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

Statistical analysis for the positive control group (50 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

Females from the vehicle control and treatment groups were removed on SD 38-39.

\*\* END OF REPORT \*\*