## M12: Cytotoxic T 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 NanotubesDate: 29 Aug 2024CAS Number: L-MWNT-1020Time: 3:47:06 PMDTXSID: DTXSID601356181Time: 3:47:06 PM

Females: CTL

	Treatment Groups				
	$0 \text{ mg/m}^3$	$0.06 \mathrm{~mg/m^3}$	$0.2~{ m mg/m^3}$	$0.6 \text{ mg/m}^3$	50  mg/kg CPS
CTL Activity $(5:1)^{a}$	$8.64 \pm 0.83[8]$	$12.36 \pm 2.54[8]$	$13.27 \pm 2.58[7]$	$13.15 \pm 5.04[8]$	$0.93 \pm 0.38[2]^*$
CTL Activity (10:1)	$20.56 \pm 1.90[8]$	$24.75 \pm 3.42[8]$	$27.75 \pm 4.28[7]$	$25.86 \pm 6.53[8]$	
CTL Activity (20:1)	$37.98 \pm 2.79[7]$	$40.86 \pm 3.96[8]$	$45.15 \pm 4.26[7]$	$37.69 \pm 8.10[7]$	

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## LEGEND

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

<sup>a</sup>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 (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  $\leq 0.01$ 

CTL = Cytotoxic T Lymphocytes

 ${\rm SEM}={\rm Standard}$  Error of the Mean

SD = Study Day

CPS = Cyclophosphamide

Females from the vehicle control and treatment groups were removed on SD 44-45.

\*\* END OF REPORT \*\*