

M12: Cytotoxic T Cell Activity

Study Number: I07062C

DTTID: 108-006-008-000-3

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: 4:12:14 PM

Females: CTL

	Treatment Groups				
	0 mg/m ³	0.06 mg/m ³	0.2 mg/m ³	0.6 mg/m ³	50 mg/kg CPS
CTL Activity (5:1) ^a	35.66 ± 3.59[8]	37.23 ± 2.85[8]	40.96 ± 4.68[8]	35.67 ± 3.78[8]	2.98 ± 0.12[2]*
CTL Activity (10:1)	57.08 ± 4.38[8]	59.65 ± 2.17[8]	61.08 ± 4.31[8]	56.86 ± 3.24[8]	3.07 ± 1.27[2]*
CTL Activity (20:1)	69.32 ± 3.43[8]	70.61 ± 2.15[8]	73.03 ± 1.98[8]	69.94 ± 1.65[8]	

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LEGEND

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

^aCTL Activity is expressed as % target cell killing calculated as ((Sample Cr⁵¹ Release - Spontaneous Cr⁵¹ Release) / (Total Cr⁵¹ Release - Spontaneous Cr⁵¹ 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

SEM = Standard Error of the Mean

SD = Study Day

CPS = Cyclophosphamide

Females from the vehicle control and treatment groups were removed on SD 107-108.

**** END OF REPORT ****