

M03: Peripheral Blood Leukocyte Cell Differential

Study Number: I07062

Test Compound: 1020 Long Multiwalled Carbon Nanotubes

Date: 29 Aug 2024

DTTID: 108-006-005-000-0

CAS Number: L-MWNT-1020

Time: 2:57:45 PM

Study Type: Immune screening

DTXSID: DTXSID601356181

Species/Strain: Rat/Sprague Dawley

Females: Immunopath

	Treatment Groups				
	0 mg/m ³	0.06 mg/m ³	0.2 mg/m ³	0.6 mg/m ³	15 mg/kg CPS
Leukocytes (x10 ³ /μL)	10.104 ± 0.691[12]	10.619 ± 0.708[11]	9.170 ± 0.677[11]	11.353 ± 0.516[12]	3.050 ± 0.164[10]**
Absolute counts					
Lymphocytes (x10 ³ /μL)	8.921 ± 0.615[12]	9.181 ± 0.616[11]	7.815 ± 0.543[11]	9.633 ± 0.454[12]	2.319 ± 0.100[10]**
Neutrophils (x10 ³ /μL)	0.664 ± 0.061[12]**	0.837 ± 0.104[11]	0.758 ± 0.080[11]	1.054 ± 0.092[12]**	0.479 ± 0.043[10]*
Monocytes (x10 ³ /μL)	0.302 ± 0.027[12]	0.358 ± 0.038[11]	0.243 ± 0.033[11]	0.317 ± 0.021[12]	0.085 ± 0.008[10]**
Eosinophils (x10 ³ /μL)	0.075 ± 0.004[12]**	0.100 ± 0.021[11]	0.175 ± 0.057[11]*	0.173 ± 0.033[12]**	0.100 ± 0.031[10]
Basophils (x10 ³ /μL)	0.044 ± 0.006[12]	0.041 ± 0.007[11]	0.038 ± 0.006[11]	0.049 ± 0.006[12]	0.011 ± 0.002[10]**
Large Unstained Cells (x10 ³ /μL)	0.098 ± 0.012[12]	0.101 ± 0.009[11]	0.144 ± 0.042[11]	0.126 ± 0.017[12]	0.056 ± 0.013[10]*
Relative counts					
Percent Lymphocytes (%)	88.23 ± 0.48[12]**	86.40 ± 0.89[11]	85.61 ± 0.88[11]*	84.82 ± 0.84[12]**	76.45 ± 1.44[10]**
Percent Neutrophils (%)	6.54 ± 0.30[12]**	7.92 ± 0.72[11]	8.17 ± 0.60[11]*	9.27 ± 0.66[12]**	15.63 ± 0.99[10]**
Percent Monocytes (%)	3.09 ± 0.32[12]	3.38 ± 0.29[11]	2.58 ± 0.25[11]	2.85 ± 0.21[12]	2.77 ± 0.26[10]
Percent Eosinophils (%)	0.78 ± 0.05[12]**	0.99 ± 0.25[11]	1.72 ± 0.46[11]**	1.56 ± 0.29[12]**	3.02 ± 0.76[10]**
Percent Basophils (%)	0.41 ± 0.04[12]	0.37 ± 0.05[11]	0.39 ± 0.04[11]	0.42 ± 0.04[12]	0.36 ± 0.06[10]
Percent Large Unstained Cells (%)	0.92 ± 0.06[12]	0.95 ± 0.05[11]	1.51 ± 0.43[11]	1.08 ± 0.12[12]	1.77 ± 0.37[10]

M03: Peripheral Blood Leukocyte Cell Differential

Study Number: I07062

Test Compound: 1020 Long Multiwalled Carbon Nanotubes

Date: 29 Aug 2024

DTTID: 108-006-005-000-0

CAS Number: L-MWNT-1020

Time: 2:57:45 PM

Study Type: Immune screening

DTXSID: DTXSID601356181

Species/Strain: Rat/Sprague Dawley

LEGEND

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

Statistical analysis performed by Jonckheere (trend) and Shirley or Dunn (pairwise) tests. The positive control group (15 mg/kg CPS) was excluded from trend test.

Statistical analysis for the positive control group (15 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 $P \leq 0.01$

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 ****