

## M06: Spleen Immunophenotyping

Study Number: I16011  
 DTTID: 106-012-003-000-3  
 Study Type: Immune screening  
 Species/Strain: Rat/Harlan Sprague Dawley

Test Compound: 2-((1-(4-Phenoxyphenoxy)propan-2-yl)oxy)pyridine  
 CAS Number: 95737-68-1  
 DTXSID: DTXSID1032640

Date: 30 Aug 2024  
 Time: 10:40:50 AM

### Females: Immunophenotyping

	Treatment Groups					
	0 mg/kg	62.5 mg/kg	125 mg/kg	250 mg/kg	500 mg/kg	15 mg/kg CPS
Spleen Cells (x10 <sup>6</sup> )	88.28 ± 11.02[12]	100.60 ± 12.85[12]	105.61 ± 15.79[12]	114.36 ± 12.89[12]	118.78 ± 12.08[12]	68.70 ± 15.26[8]
<b>Absolute counts</b>						
Total Lymphocytes	84.475 ± 10.798[12]*	98.765 ± 12.721[12]	101.389 ± 15.136[12]	112.412 ± 12.699[12]	115.180 ± 12.440[12]	66.455 ± 15.778[8]
Total T Cells	28.746 ± 3.777[12]	34.134 ± 4.515[12]	33.525 ± 5.269[12]	36.566 ± 4.603[12]	39.700 ± 5.273[12]	38.862 ± 10.142[8]
CD4 <sup>+</sup> T Cells <sup>a</sup>	15.745 ± 1.950[12]	20.050 ± 2.672[12]	19.728 ± 3.480[12]	21.029 ± 2.741[12]	24.404 ± 3.842[12]	19.417 ± 5.230[8]
CD8 <sup>+</sup> T Cells <sup>b</sup>	12.113 ± 1.791[12]	13.089 ± 1.866[12]	12.794 ± 1.871[12]	14.394 ± 1.783[12]	14.119 ± 1.512[12]	18.609 ± 5.031[8]
B Cells	41.657 ± 5.443[12]	48.267 ± 6.369[12]	51.273 ± 7.945[12]	56.303 ± 6.687[12]	57.565 ± 6.586[12]	17.266 ± 3.649[8]**
NK Cells	2.553 ± 0.373[12]	2.878 ± 0.334[12]	2.575 ± 0.379[12]	3.240 ± 0.336[12]	3.469 ± 0.588[12]	3.459 ± 0.902[8]
Mono/Mac Cells <sup>c</sup>	1.289 ± 0.186[12]	1.174 ± 0.125[12]	1.214 ± 0.153[12]	1.421 ± 0.120[12]	1.254 ± 0.206[12]	0.452 ± 0.082[8]**
Neutrophils	0.645 ± 0.066[12]	0.678 ± 0.042[12]	0.637 ± 0.041[12]	0.788 ± 0.065[12]	0.636 ± 0.056[12]	0.455 ± 0.085[8]
Eosinophils	0.562 ± 0.084[12]	0.560 ± 0.064[12]	0.602 ± 0.082[12]	0.648 ± 0.076[12]	0.531 ± 0.104[12]	0.663 ± 0.202[8]
Total T Cells: B Cells Ratio	0.695 ± 0.019[12]	0.715 ± 0.021[12]	0.648 ± 0.014[12]	0.647 ± 0.025[12]	0.680 ± 0.033[12]	2.055 ± 0.173[8]**
CD4 <sup>+</sup> T Cells: CD8 <sup>+</sup> T Cells Ratio	1.352 ± 0.077[12]	1.575 ± 0.126[12]	1.551 ± 0.142[12]	1.468 ± 0.074[12]	1.684 ± 0.130[12]	1.108 ± 0.178[8]*
<b>Relative counts</b>						
Percent Total Lymphocytes (%)	95.272 ± 1.656[12]	98.041 ± 0.229[12]	96.281 ± 1.254[12]	98.250 ± 0.176[12]	96.093 ± 1.278[12]	93.859 ± 3.268[8]
Percent Total T Cells (%)	34.013 ± 0.734[12]	34.576 ± 0.593[12]	32.523 ± 0.557[12]	32.068 ± 0.916[12]	33.519 ± 1.130[12]	55.296 ± 2.181[8]**
Percent CD4 <sup>+</sup> T Cells (%)	55.271 ± 1.223[12]	58.502 ± 1.592[12]	57.946 ± 1.732[12]	57.216 ± 1.112[12]	59.963 ± 1.609[12]	49.519 ± 3.280[8]
Percent CD8 <sup>+</sup> T Cells (%)	41.690 ± 1.290[12]	38.614 ± 1.672[12]	39.102 ± 1.745[12]	39.562 ± 1.089[12]	36.945 ± 1.605[12]	48.391 ± 3.301[8]*
Percent B Cells (%)	49.059 ± 0.492[12]*	48.579 ± 0.655[12]	50.298 ± 0.477[12]	49.828 ± 0.783[12]	49.808 ± 1.263[12]	27.750 ± 1.462[8]**
Percent NK Cells (%)	2.989 ± 0.164[12]	2.992 ± 0.121[12]	2.582 ± 0.150[12]	2.956 ± 0.173[12]	2.813 ± 0.225[12]	5.220 ± 0.418[8]**
Percent Mono/Mac Cells (%)	1.456 ± 0.115[12]	1.229 ± 0.073[12]	1.224 ± 0.076[12]	1.336 ± 0.126[12]	1.146 ± 0.170[12]	0.730 ± 0.068[8]**
Percent Neutrophils (%)	0.783 ± 0.070[12]	0.761 ± 0.076[12]	0.731 ± 0.093[12]	0.755 ± 0.084[12]	0.595 ± 0.071[12]	0.753 ± 0.091[8]
Percent Eosinophils (%)	0.620 ± 0.042[12]	0.583 ± 0.046[12]	0.619 ± 0.086[12]	0.583 ± 0.044[12]	0.502 ± 0.092[12]	0.946 ± 0.182[8]

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### LEGEND

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

All units are  $\times 10^6$ /spleen 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  $P \leq 0.01$

<sup>a</sup>CD4<sup>+</sup> T Cells = Helper/DTH - T Cell

<sup>b</sup>CD8<sup>+</sup> T Cells = Cytotoxic T Cell

<sup>c</sup>Mono/Mac Cells = Monocytes/Macrophage

SD = Study Day

SEM = Standard Error of the Mean

CPS = Cyclophosphamide

Females from the vehicle control and treatment groups were removed on SD 28.

**\*\* END OF REPORT \*\***