

M15: Natural Killer Cell Activity

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: 10:52:09 AM

Females: NK

	Treatment Groups					
	0 mg/kg	62.5 mg/kg	125 mg/kg	250 mg/kg	500 mg/kg	15 mg/kg CPS
NK Cell Activity (12.5:1)	35.89 ± 3.72[12]	36.62 ± 3.60[12]	31.94 ± 3.85[12]	35.44 ± 4.56[12]	32.61 ± 4.29[12]	27.94 ± 4.83[8]
NK Cell Activity (25:1)	49.73 ± 3.81[12]	51.78 ± 2.49[12]	48.03 ± 3.87[12]	49.20 ± 4.42[12]	47.26 ± 4.45[12]	39.85 ± 5.07[8]
NK Cell Activity (50:1)	56.77 ± 3.15[12]	59.61 ± 1.50[12]	60.21 ± 2.44[11]	56.65 ± 3.30[12]	56.65 ± 3.25[12]	45.20 ± 4.33[8]*

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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 (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 $P \leq 0.01$

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 28.

** END OF REPORT **