Figure 1 Dose response

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 0 | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 | 0.9 | 1 |
| 1.0663 | 0.9881 | 0.8727 | 0.5699 | 0.4305 | 0.4045 | 0.3039 | 0.1939 | 0.1598 | 0.1468 | 0.1023 |
| 1.3051 |  | 1.3410 | 1.0933 | 0.5073 | 0.5633 | 0.5356 | 0.5022 | 0.2666 | 0.1808 | 0.1070 |
| 1.3051 |  | 0.7595 | 1.1391 | 0.8243 | 0.5879 | 0.4668 | 0.4672 | 0.2685 | 0.2211 | 0.1218 |
| 1.2208 | 1.2750 | 1.1248 | 0.9775 | 0.5715 | 0.3634 | 0.3869 | 0.2670 | 0.2481 | 0.1565 | 0.1174 |
| 1.1598 | 1.2850 | 1.0247 | 0.7914 | 0.3009 | 0.3511 | 0.1736 | 0.2034 | 0.1591 | 0.1508 | 0.1069 |
| 1.1647 | 1.0274 | 1.0251 | 0.6427 | 0.6452 | 0.5280 | 0.3701 | 0.2709 | 0.1781 | 0.1285 | 0.0877 |
| 1.0464 | 1.0913 | 0.9762 | 0.6684 | 0.4357 | 0.3847 | 0.2951 | 0.1916 | 0.1440 | 0.1216 | 0.0874 |
| 1.0795 | 0.9127 | 0.7633 | 0.6256 | 0.3494 | 0.2540 | 0.2032 | 0.1625 | 0.1723 | 0.1148 | 0.0928 |

Figure 2 XTT

|  |  |  |  |
| --- | --- | --- | --- |
| Control | PK 11195 25 µM | CoCl2 0.5 mM | CoCl2+ PK 11195 25 µM |
| 0.9795 | 1.0653 | 0.3040 | 0.8257 |
| 0.9072 | 1.0113 | 0.5945 | 0.8006 |
| 1.1962 | 0.9646 | 0.6272 | 0.8227 |
| 0.9147 | 1.0468 | 0.5547 | 0.7106 |
| 0.9038 | 0.8895 | 0.1944 | 0.7784 |

Figure 3 Cardiolipin peroxidation

|  |  |  |  |
| --- | --- | --- | --- |
| Control | PK 11195 25mM | CoCl2 0.5 mM | CoCl2 + PK 11195 25mM |
| 89.26174 | 131.87920 | 56.040270 | 78.523490 |
| 88.92617 | 101.00670 | 54.362420 | 110.402700 |
| 96.97987 | 93.28859 | 53.020130 | 121.812100 |
| 123.15440 | 128.85910 | 55.033560 | 115.100700 |
| 101.67790 | 135.90600 | 90.268460 | 86.241610 |

Figure 4 JC-1

|  |  |  |  |
| --- | --- | --- | --- |
| Control | PK 11195 25mM | CoCl2 0.5 mM | CoCl2 0.5 mM+ PK 11195 25mM |
| 102.72400 | 97.731660 | 86.531330 | 97.097600 |
| 100.24630 | 100.292800 | 87.426530 | 99.622920 |
| 99.29807 | 99.729060 | 87.847950 | 100.192900 |
| 97.70000 | 100.430500 | 89.371170 | 93.424330 |

Figure 5 apopxin

|  |  |  |  |
| --- | --- | --- | --- |
| Control | PK 11195 25mM | CoCl2 0.5 mM | CoCl2 0.5 mM+ PK 11195 25mM |
| 91.96539 | 107.293000 | 119.159500 | 87.515450 |
| 104.82080 | 123.115000 | 233.374500 | 96.415330 |
| 107.29300 | 131.520400 | 299.629200 | 99.381950 |
| 95.92089 | 97.404200 |  | 109.765100 |

Figure 6 XTT BV-2 cells

1. 30 minutes

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Control | 0.1 mM | 0.3 mM | 0.5 mM | 0.7 mM | 0.9 mM |
| 0.7507 | 1.1918 | 1.0904 | 0.9216 | 0.7280 | 0.5688 |
| 1.0769 | 1.2890 | 1.0242 | 1.1855 | 1.0332 | 0.8319 |
| 1.1517 | 1.4243 | 1.0162 | 0.9853 | 0.8799 | 0.7518 |
| 1.1694 | 1.2391 | 0.9313 | 0.8160 | 0.8685 | 0.7716 |
| 1.0505 | 1.2407 | 0.9549 | 0.8171 | 0.7859 | 0.7660 |
| 1.0981 | 1.1600 | 0.8812 | 0.8891 | 0.8076 | 0.8498 |
| 1.0676 | 1.0965 | 0.8927 | 0.8979 | 0.9442 | 0.7670 |
| 1.0175 | 0.9887 | 0.7468 | 0.7104 | 0.6812 | 0.6219 |

1. 4 hours

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Control | 0.1 mM | 0.3 mM | 0.5 mM | 0.7 mM | 0.9 mM |
| 1.0020 | 0.9373 | 0.9470 | 0.7824 | 0.6131 | 0.4762 |
| 1.1710 | 1.2597 | 1.0525 | 1.0181 | 0.7581 | 0.6355 |
| 1.0574 | 1.2198 | 1.1145 | 0.9399 | 0.6939 | 0.5554 |
| 1.0267 | 1.0722 | 1.0253 | 0.9710 | 0.7283 | 0.6350 |
| 1.0759 | 1.1657 | 0.9771 | 0.8730 | 0.7537 | 0.6627 |
| 1.0905 | 1.1271 | 1.0355 | 0.9412 | 0.7773 | 0.6049 |
| 1.0477 | 1.0921 | 1.0968 | 0.9509 | 0.8065 | 0.6780 |
| 1.1002 | 1.2354 | 1.1476 | 0.8800 | 0.7269 | 0.5738 |

1. 24 hours

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 0 | 0.1 | 0.3 | 0.5 | 0.7 | 0.9 |
| 1.8536 | 1.2468 | 1.1462 | 0.3174 | 0.1906 | 0.1785 |
| 2.2300 | 1.4958 | 1.1790 | 0.8610 | 0.2502 | 0.1988 |
| 1.9576 | 1.7827 | 1.3093 | 0.8819 | 0.2552 | 0.2005 |
| 1.8887 | 1.6658 | 1.4010 | 0.8377 | 0.2516 | 0.2073 |
| 2.0085 | 1.5899 | 1.3634 | 0.7234 | 0.2449 | 0.2017 |
| 1.8189 | 1.6399 | 1.3764 | 0.8913 | 0.2494 | 0.2070 |
| 2.0686 | 1.7219 | 1.4934 | 0.8014 | 0.2509 | 0.2113 |
| 1.8110 | 1.6551 | 1.4614 | 0.4765 | 0.2129 | 0.1866 |

Figure 7 ROS analyses

1. 4 hours

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Control | PK 11195 25µM | Cobalt 0.3mM | Cobalt 0.5mM | Cobalt 0.7mM | Cobalt 0.3mM+ PK 11195 25µM | Cobalt 0.5mM+ PK 11195 25µM | Cobalt 0.7mM+ PK 11195 25µM |
| 101.704600 | 105.166800 | 101.492600 | 118.803800 | 124.209100 | 98.454360 | 90.258080 | 94.426880 |
| 105.908700 | 86.831180 | 111.738000 | 121.241500 | 130.109000 | 106.297400 | 93.790960 | 100.044200 |
| 103.577000 | 108.876400 | 107.215900 | 127.318000 | 128.801800 | 101.987200 | 111.455400 | 103.365100 |
| 88.809600 | 98.320110 | 113.504400 | 119.722300 | 121.064800 | 106.862600 | 119.722300 | 126.477200 |

1. 24 hours

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Control | PK 11195 25µM | Cobalt 0.3mM | Cobalt 0.5mM | Cobalt 0.7mM | Cobalt 0.3mM+ PK 11195 25µM | Cobalt 0.5mM+ PK 11195 25µM | Cobalt 0.7mM+ PK 11195 25µM |
| 112.115900 | 97.585600 | 176.251100 | 281.914000 | 227.743600 | 94.293240 | 107.023700 | 129.060600 |
| 144.249300 | 99.648810 | 217.032500 | 284.591700 | 313.564500 | 78.884990 | 128.665500 | 159.877100 |
| 75.417030 | 103.380200 | 226.163300 | 324.978100 | 340.474100 | 75.812120 | 98.902550 | 182.660200 |
| 96.663740 | 79.367870 | 228.928900 | 308.823500 | 330.816500 | 67.778750 | 102.326600 | 215.759400 |
| 71.553990 | 64.179100 | 239.288800 | 290.649700 | 341.000900 | 63.213350 | 91.922740 | 157.682200 |

Figure 8 TSPO levels

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Control | PK 11195 25mM | Cobalt 0.3 mM | Cobalt 0.5 mM | Cobalt 0.7 mM | Cobalt 0.3 mM+ PK 11195 25mM | Cobalt 0.5 mM+ PK 11195 25mM | Cobalt 0.7 mM+ PK 11195 25mM |
| 120.40820 | 91.958880 | 117.959200 | 135.918400 | 170.612200 | 120.816300 | 84.489800 | 73.061230 |
| 74.69388 | 99.281790 | 104.898000 | 163.673500 | 120.816300 | 79.183670 | 83.673470 | 92.244900 |
| 95.51020 | 98.296010 | 147.346900 | 105.714300 | 122.040800 | 95.918370 | 96.326530 | 68.571430 |
| 105.30610 | 84.213490 | 116.326500 | 106.530600 | 162.040800 | 64.489800 | 51.836730 | 88.571430 |
| 104.08160 | 108.224200 | 147.755100 | 134.693900 | 137.142900 | 99.183670 | 110.204100 | 74.693880 |

Figure 9

1. Caspase 3

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Control | PK 11195 25µM | Cobalt 0.3mM | Cobalt 0.5mM | Cobalt 0.7mM | Cobalt 0.3mM+ PK 11195 25µM | Cobalt 0.5mM+ PK 11195 25µM | Cobalt 0.7mM+ PK 11195 25µM |
| 49.694760 | 128.287800 | 46.727910 | 177.383500 | 429.965200 | 82.729500 | 50.493520 | 130.684100 |
|  | 123.324000 | 38.569070 | 176.213800 | 265.504600 | 87.579160 | 96.365610 | 221.144500 |
| 123.209900 | 152.849900 | 47.241400 | 148.485200 | 218.833800 | 90.973920 | 115.707200 |  |
| 92.371770 | 152.849900 | 40.451870 | 152.935500 | 213.613300 | 76.367890 | 88.891430 | 172.990200 |
| 83.157410 | 138.415000 | 47.783420 | 224.910100 | 350.516400 | 58.167400 | 65.727170 | 140.440500 |

1. Caspase 9

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Control | PK 11195 25µM | Cobalt 0.3mM | Cobalt 0.5mM | Cobalt 0.7mM | Cobalt 0.3mM+ PK 11195 25µM | Cobalt 0.5mM+ PK 11195 25µM | Cobalt 0.7mM+ PK 11195 25µM |
| 81.21263 | 130.768000 | 61.369660 | 86.058970 | 125.796900 | 54.037750 | 107.701100 | 77.125470 |
|  | 88.742130 | 46.456240 | 89.418130 | 113.306600 | 74.889500 | 90.031720 | 90.291720 |
| 123.74810 | 109.437900 | 60.402470 | 87.982940 | 107.493100 | 105.797900 | 68.659970 |  |
| 100.39000 | 128.365700 | 47.777030 | 90.957310 | 99.620410 | 69.034370 | 69.866360 | 81.004630 |
| 94.64926 | 113.254600 | 55.202540 | 92.298890 | 116.842600 | 55.233740 | 54.401750 | 68.202380 |