|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| [NAD], uM | with DMSO | | with 25 uM NAM | | % activity |
| [P], uM | [P], pmoles | [P], uM | [P], pmoles |
| 50 | 6.24 | 311.92 | 6.05 | 302.34 | 96.93 |
| 1000 | 20.77 | 1038.36 | 16.50 | 825.00 | 79.45 |
| 3000 | 26.09 | 1304.50 | 21.65 | 1082.50 | 82.98 |
|  |  | |  | |  |
| [NAD], uM | with DMSO | | with 200 uM Honokiol | | % activity |
| [P], uM | [P], pmoles | [P], uM | [P], pmoles |
| 50 | 6.24 | 311.92 | 3.23 | 161.43 | 51.75 |
| 1000 | 20.77 | 1038.36 | 9.96 | 497.76 | 47.94 |
| 3000 | 26.09 | 1304.50 | 12.42 | 621.00 | 47.60 |
|  |  | |  | |  |
| [NAD], uM | with DMSO | | with 25 uM NAM+200 uM Honokiol | | % activity |
| [P], uM | [P], pmoles | [P], uM | [P], pmoles |
| 50 | 6.24 | 311.92 | 2.94 | 146.76 | 47.05 |
| 1000 | 20.77 | 1038.36 | 8.37 | 418.51 | 40.31 |
| 3000 | 26.09 | 1304.50 | 10.82 | 541.00 | 41.47 |

**Table 1: In-house Sirt3 5U/reaction (1.85 uM), 600 uM K122-MnSOD, 5% DMSO, 30 min at 37OC**

**Table 2: Enzo Sirt3 5U/reaction (0.214 uM), 3000 uM NAD, 600 uM K122-MnSOD, 5% DMSO, 30 min at 37OC**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **[NAM], uM** | **[P], uM** | **[P], pmoles** | % activity | % inhibition |
| 0 | 17.29 | 864.70 | 100.0 | 0.00 |
| 25 | 16.514 | 825.70 | 95.5 | 4.49 |
| 50 | 14.64 | 732.00 | 84.7 | 15.33 |
| 100 | 12.11 | 605.50 | 70.0 | 29.96 |
| 200.000 | 9.815 | 490.75 | 56.8 | 43.23 |
| 500.000 | 6.190 | 309.50 | 35.8 | 64.20 |