Supplementary Table. Estimation of Z’-factor for the ELISA assay performed under standard conditions.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |   |  OD405 |  |  |
|  | Background | Negative Control | Complete assay | Z’-factor |
| Set 1 | 0.087 | 0.006 | 1.120 | 0.79 |
|  | 0.085 |  -0.002 | 1.167 |  |
|  |  | 0.001 | 1.076 |  |
|  |  | 0.008 | 1.265 |  |
|  |  | 0.005 | 1.216 |  |
|  |  |  |  |  |
| Set 2 | 0.092 |  -0.002 | 1.142 | 0.82 |
|  | 0.090 |  -0.003 | 1.121 |  |
|  |  | 0.000 | 1.113 |  |
|  |  | 0.001 | 1.228 |  |
|  |  |  -0.001 | 1.044 |  |
|  |  |  |  |  |
| Set 3 | 0.058 | 0.002 | 0.933 | 0.70 |
|  | 0.055 | 0.006 | 0.910 |  |
|  |  | 0.002 | 0.823 |  |
|  |  |  -0.001 | 0.729 |  |
|  |  | 0.006 | 0.857 |  |

Complete assays were performed under standard conditions [200 ng of HT-PRD, 5 ng HT-497, 100 μM ATP, and 30 min kinase reaction at 30°C] and quantified as described in the Methods. Negative controls were assays conducted in parallel but without the addition of HT-497 (DYRK1A). Complete assays and negative controls in each set (5 repeats) were first corrected for the background (PNPP only) and then used for Z’-factor calculation according to Zhang, JH. et al. [1]

1. Zhang JH, Chung TD, Oldenburg KR. A simple statistical parameter for use in evaluation and validation of high throughput screening assays. *J. Biomol. Screen.* 1999; 4(2): 67-73.

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