# Advanced Kinetics

Experiment: CHIP-TPR biotin-pTHsp70 with Regeneration
Description: CHIP-TPR with biotin-GSGSGPpTIEEVD with 500mM Phosphoric Acid regeneration
Date: Tuesday, October 14, 2014
Time: 12:51:52 PM

BLItz Pro version: 1.1.0.31
Instrument Serial #: FB-60285
Firmware: 1.1.0.7

**Run Settings**

| | Step Type | Duration (s) | Position |
|---|---|---|---|
| 1 | Initial Baseline | 30 | Tube |
| 2 | Baseline | 30 | Tube |
| 3 | Loading | 60 | Drop |
| 4 | Baseline | 30 | Tube |
| 5 | Association | 120 | Drop |
| 6 | Dissociation | 120 | Tube |
| 7 | Custom | 45 | Tube |
| 8 | Custom | 30 | Tube |
| 9 | Custom | 45 | Tube |
| 10 | Custom | 30 | Tube |
| 11 | Custom | 30 | Tube |
| 12 | Custom | 60 | Tube |

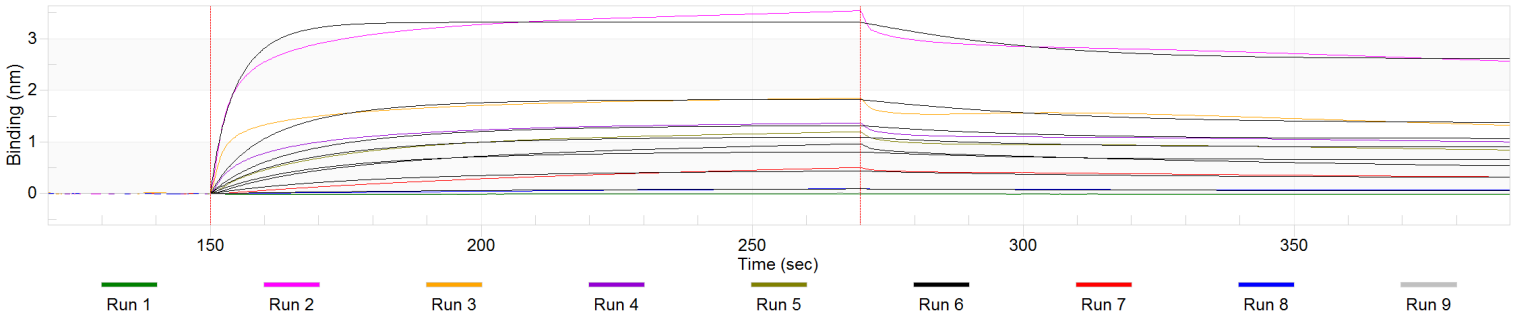
**Run Data**

**Run List**

| Index | Show | Analyze | Ref. | Sample ID | Conc. (µM) | Run time (s) | Shaker speed (rpm) | Integration (ms) | Biosensor Type | Information | Status | t=0 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 1 | 1 | 0 | pTHsp70 peptide loading | 0 | 630 | 2200 | 1.8 | SA | | | |
| 2 | 1 | 1 | 0 | 50um TPR | 50 | 630 | 2200 | 1.8 | SA | | | |
| 3 | 1 | 1 | 0 | 20um TPR | 20 | 630 | 2200 | 1.7 | SA | | | |
| 4 | 1 | 1 | 0 | 10um TPR | 10 | 630 | 2200 | 1.8 | SA | | | |
| 5 | 1 | 1 | 0 | 8um TPR | 8 | 630 | 2200 | 1.8 | SA | | | |
| 6 | 1 | 1 | 0 | 6um TPR | 6 | 630 | 2200 | 1.8 | SA | | | |
| 7 | 1 | 1 | 0 | 4um TPR | 4 | 630 | 2200 | 1.8 | SA | | | |
| 8 | 1 | 1 | 0 | 2um TPR | 2 | 630 | 2200 | 1.7 | SA | | | |
| 9 | 1 | 1 | 0 | 0um TPR | 0 | 630 | 2200 | 1.8 | SA | | | |

**Analysis Parameters**
Global fitting (1:1)
Step correction: Start of association, Start of dissociation

**Analysis Data**




| Index | Sample ID | Conc. (µM) | Information | KD (M) | ka (1/Ms) | ka Error | kd (1/s) | kd Error | Rmax | Rmax Error | R equilibrium |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | pTHsp70 peptide loading | 0 | | | | | | | | | |
| 2 | 50um TPR | 50 | | 1.312e-6 | 4.556e3 | 2.01e2 | 5.978e-3 | 3.062e-4 | 3.458 | 0.02585 | 3.37 |
| 3 | 20um TPR | 20 | | 1.312e-6 | 4.556e3 | 2.01e2 | 5.978e-3 | 3.062e-4 | 2.07 | 0.03561 | 1.943 |
| 4 | 10um TPR | 10 | | 1.312e-6 | 4.556e3 | 2.01e2 | 5.978e-3 | 3.062e-4 | 2.042 | 0.09828 | 1.805 |
| 5 | 8um TPR | 8 | | 1.312e-6 | 4.556e3 | 2.01e2 | 5.978e-3 | 3.062e-4 | 1.958 | 0.1194 | 1.682 |
| 6 | 6um TPR | 6 | | 1.312e-6 | 4.556e3 | 2.01e2 | 5.978e-3 | 3.062e-4 | 1.621 | 0.1095 | 1.33 |
| 7 | 4um TPR | 4 | | 1.312e-6 | 4.556e3 | 2.01e2 | 5.978e-3 | 3.062e-4 | 0.8779 | 0.05967 | 0.6611 |
| 8 | 2um TPR | 2 | | 1.312e-6 | 4.556e3 | 2.01e2 | 5.978e-3 | 3.062e-4 | 0.2079 | 0.04093 | 0.1255 |
| 9 | 0um TPR | 0 | | | | | | | | | |