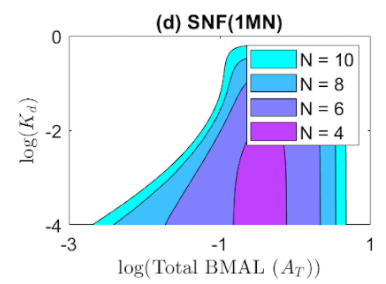
Dimensional Kd value of 1MN model

param beta=4, Km=0.1

param Ka=0.1

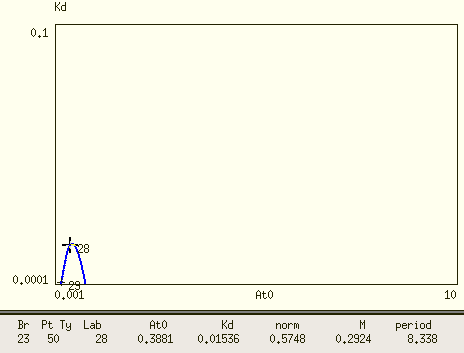


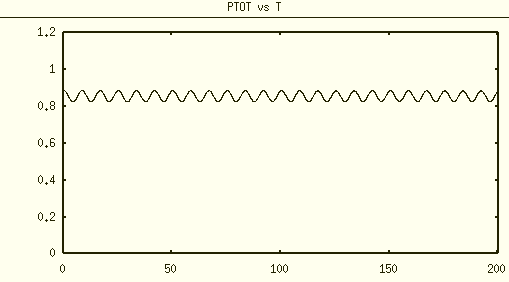
Step 1 Determine the largest Kd value for each N

Step 2 Calculate the dimensional Kd for each N

is the non-dimensional Ptot

N=4, largest Kd = 0.01536



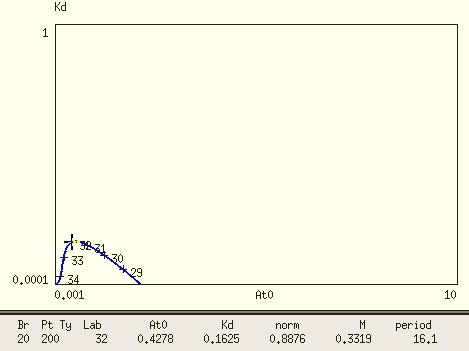


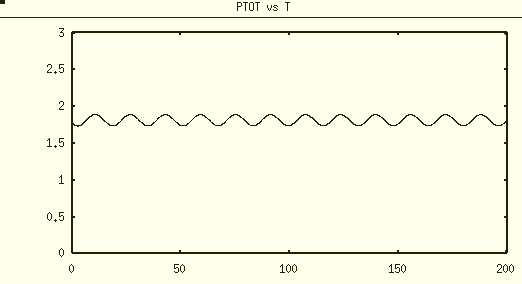
Ptot ~0.9

≈ 111 nM

Dimensional Kd ~ 0.01536\*111 = 1.7

N=6, largest Kd = 0.1625



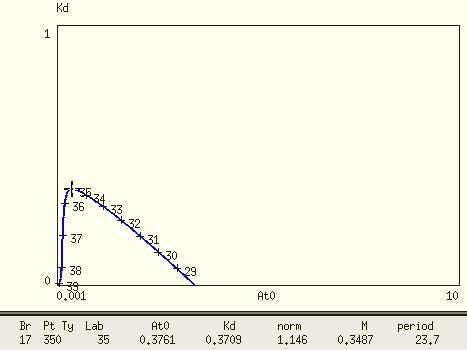


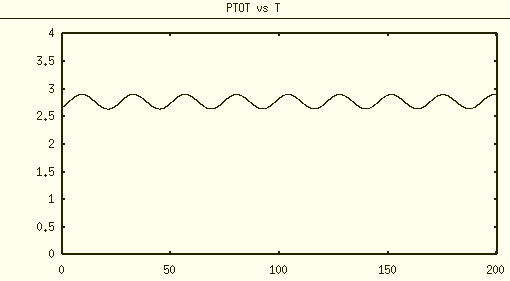
Ptot = 1.9

≈ 52.6 nM

Dimensional Kd ~ 0.1625\*52.6 = 8.5475

N=8 largest Kd =0.3709



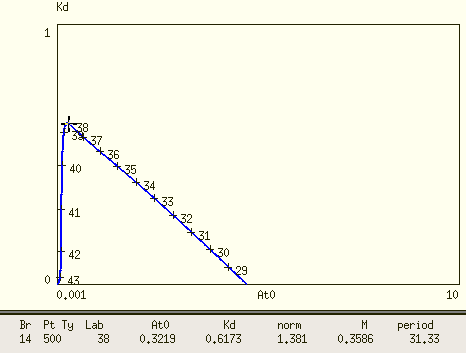


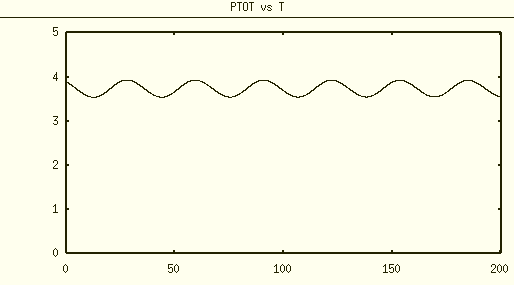
Ptot = 2.9

≈ 34.48 nM

Dimensional Kd ~ 0.3709\*34.48 = 12.78

N=10 largest Kd = 0.6173





Ptot = 4

≈ 25nM

Dimensional Kd ~ 0.6173\*25 = 15.43

Summary

|  |  |
| --- | --- |
| N | Dimensional Kd |
| 4 | 1.7 |
| 6 | 8.55 |
| 8 | 12.78 |
| 10 | 15.43 |