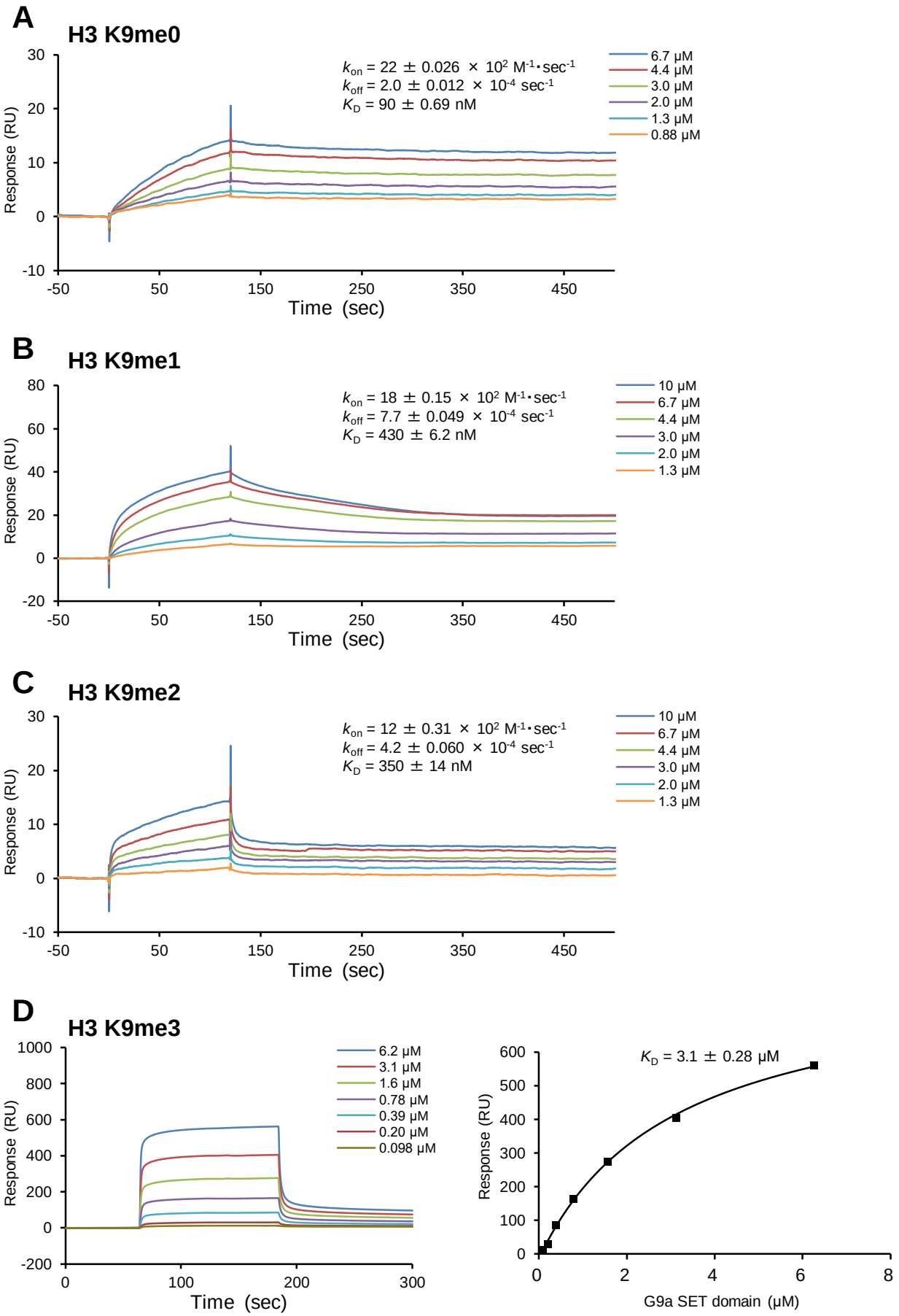
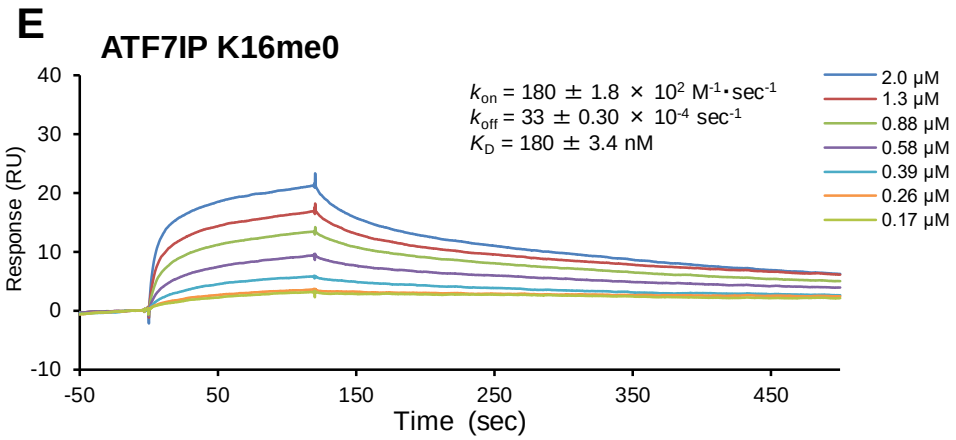
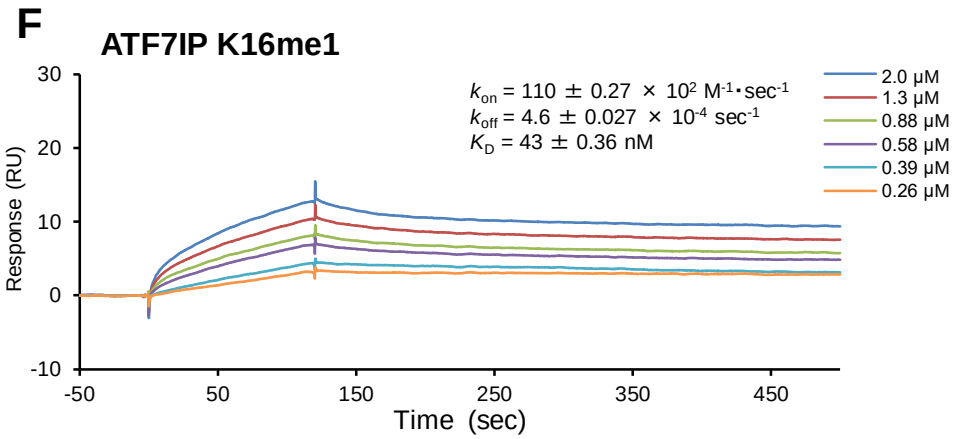
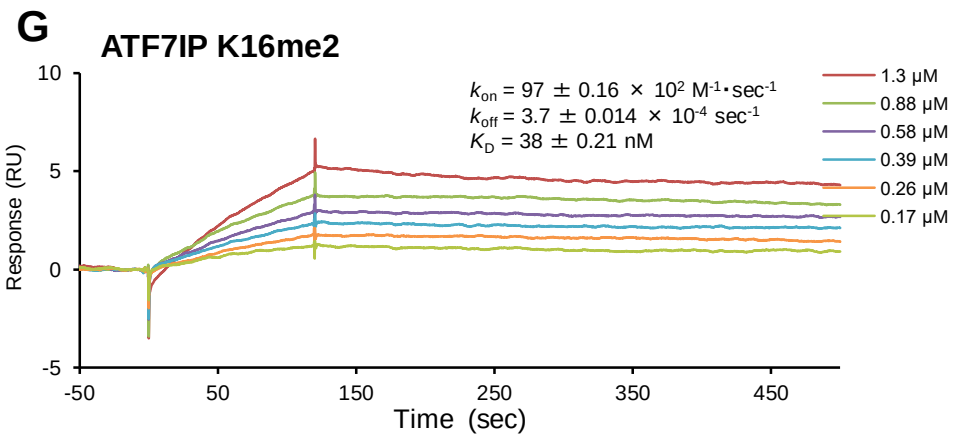

A
H3 K9me0
k_{on} = 22 ± 0.026 × 10^2 M^{-1}·sec^{-1}
k_{off} = 2.0 ± 0.012 × 10^{-4} sec^{-1}
K_D = 90 ± 0.69 nM
6.7 μM
4.4 μM
3.0 μM
2.0 μM
1.3 μM
0.88 μM
Response (RU)
Time (sec)
B
H3 K9me1
k_{on} = 18 ± 0.15 × 10^2 M^{-1}·sec^{-1}
k_{off} = 7.7 ± 0.049 × 10^{-4} sec^{-1}
K_D = 430 ± 6.2 nM
10 μM
6.7 μM
4.4 μM
3.0 μM
2.0 μM
1.3 μM
Response (RU)
Time (sec)
C
H3 K9me2
k_{on} = 12 ± 0.31 × 10^2 M^{-1}·sec^{-1}
k_{off} = 4.2 ± 0.060 × 10^{-4} sec^{-1}
K_D = 350 ± 14 nM
10 μM
6.7 μM
4.4 μM
3.0 μM
2.0 μM
1.3 μM
Response (RU)
Time (sec)
D
H3 K9me3
6.2 μM
3.1 μM
1.6 μM
0.78 μM
0.39 μM
0.20 μM
0.098 μM
Response (RU)
Time (sec)
K_D = 3.1 ± 0.28 μM
Response (RU)
G9a SET domain (μM)

Figure S4 (1)


E
ATF7IP K16me0
k_{on} = 180 ± 1.8 × 10^2 M^{-1}·sec^{-1}
k_{off} = 33 ± 0.30 × 10^{-4} sec^{-1}
K_D = 180 ± 3.4 nM
2.0 μM
1.3 μM
0.88 μM
0.58 μM
0.39 μM
0.26 μM
0.17 μM
Response (RU)
Time (sec)


F
ATF7IP K16me1
k_{on} = 110 ± 0.27 × 10^2 M^{-1}·sec^{-1}
k_{off} = 4.6 ± 0.027 × 10^{-4} sec^{-1}
K_D = 43 ± 0.36 nM
2.0 μM
1.3 μM
0.88 μM
0.58 μM
0.39 μM
0.26 μM
Response (RU)
Time (sec)


G
ATF7IP K16me2
k_{on} = 97 ± 0.16 × 10^2 M^{-1}·sec^{-1}
k_{off} = 3.7 ± 0.014 × 10^{-4} sec^{-1}
K_D = 38 ± 0.21 nM
1.3 μM
0.88 μM
0.58 μM
0.39 μM
0.26 μM
0.17 μM
Response (RU)
Time (sec)

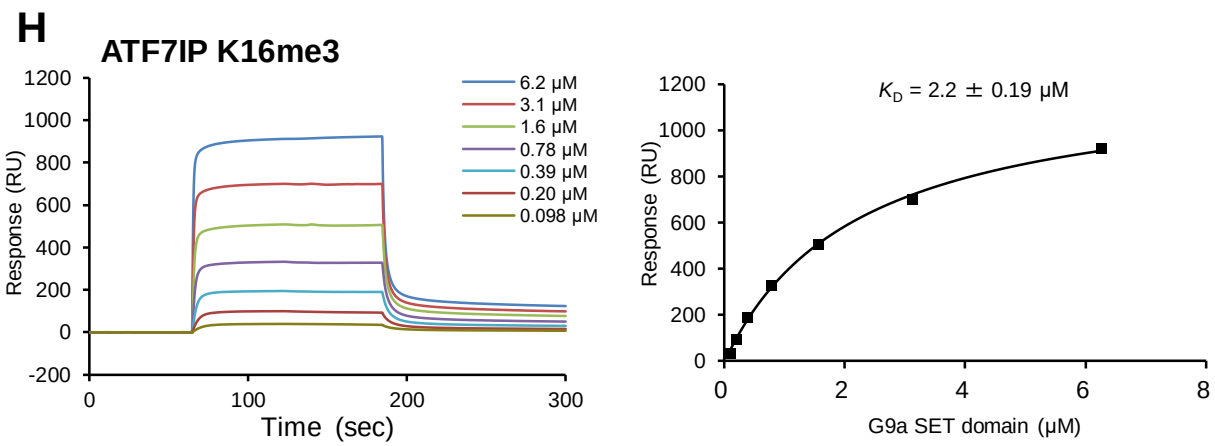

H
ATF7IP K16me3
6.2 μM
3.1 μM
1.6 μM
0.78 μM
0.39 μM
0.20 μM
0.098 μM
Response (RU)
Time (sec)
K_D = 2.2 ± 0.19 μM
Response (RU)
G9a SET domain (μM)

Figure S4 (2)

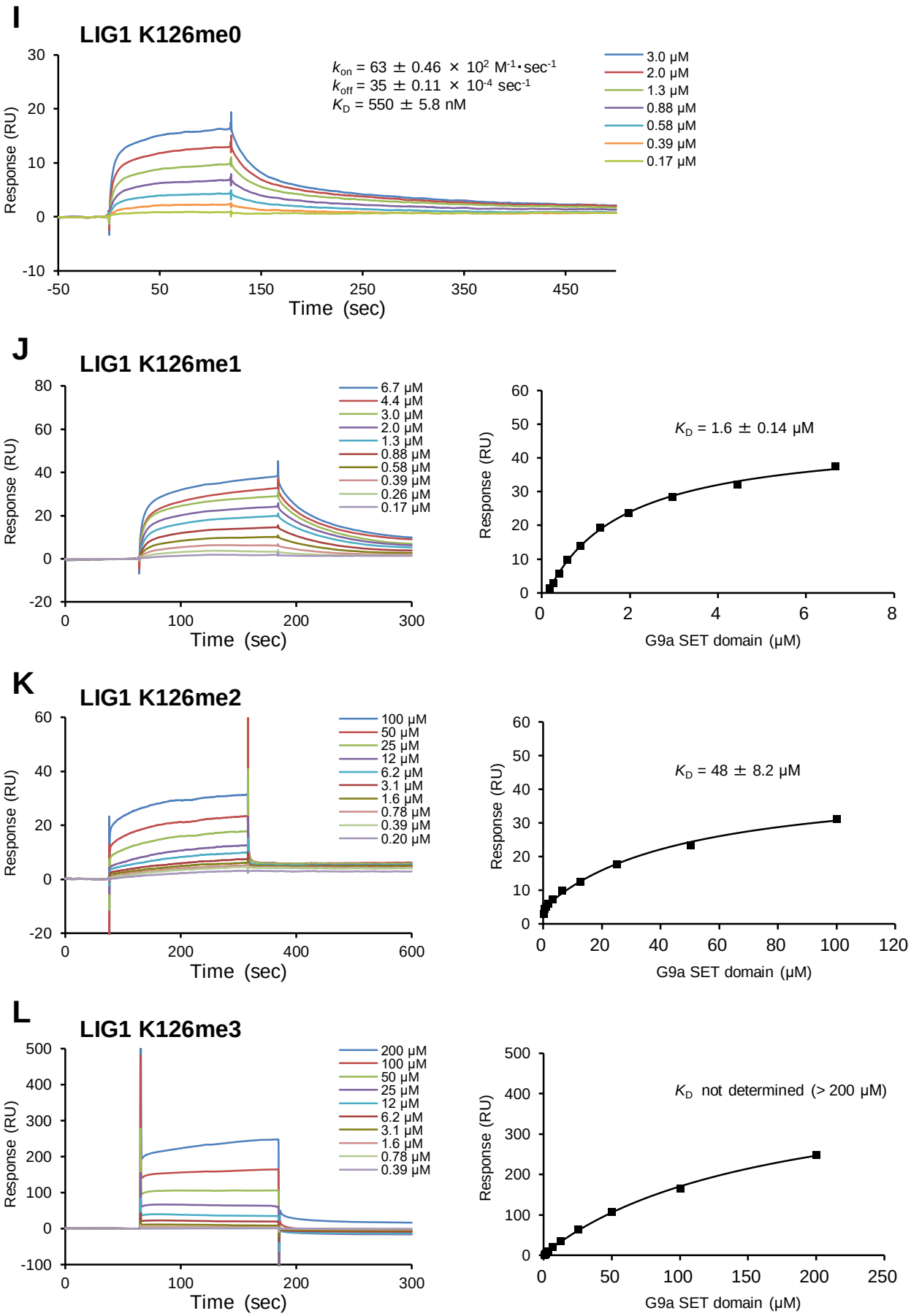

I
LIG1 K126me0
k_{on} = 63 ± 0.46 × 10^2 M^{-1}·sec^{-1}
k_{off} = 35 ± 0.11 × 10^{-4} sec^{-1}
K_D = 550 ± 5.8 nM
3.0 μM
2.0 μM
1.3 μM
0.88 μM
0.58 μM
0.39 μM
0.17 μM
Response (RU)
Time (sec)
J
LIG1 K126me1
6.7 μM
4.4 μM
3.0 μM
2.0 μM
1.3 μM
0.88 μM
0.58 μM
0.39 μM
0.26 μM
0.17 μM
Response (RU)
Time (sec)
K_D = 1.6 ± 0.14 μM
Response (RU)
G9a SET domain (μM)
K
LIG1 K126me2
100 μM
50 μM
25 μM
12 μM
6.2 μM
3.1 μM
1.6 μM
0.78 μM
0.39 μM
0.20 μM
Response (RU)
Time (sec)
K_D = 48 ± 8.2 μM
Response (RU)
G9a SET domain (μM)
L
LIG1 K126me3
200 μM
100 μM
50 μM
25 μM
12 μM
6.2 μM
3.1 μM
1.6 μM
0.78 μM
0.39 μM
Response (RU)
Time (sec)
K_D not determined (> 200 μM)
Response (RU)
G9a SET domain (μM)

Figure S4 (3)