

SPR results for the Atomwise library

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Experimental conditions:

Sensor: NTA + amine coupling (including final wash with running buffer with 350 mM EDTA)

Samples immobilised:

- *PaMurE*
- *PaMurC*
- *PaMurD*

Running buffer:

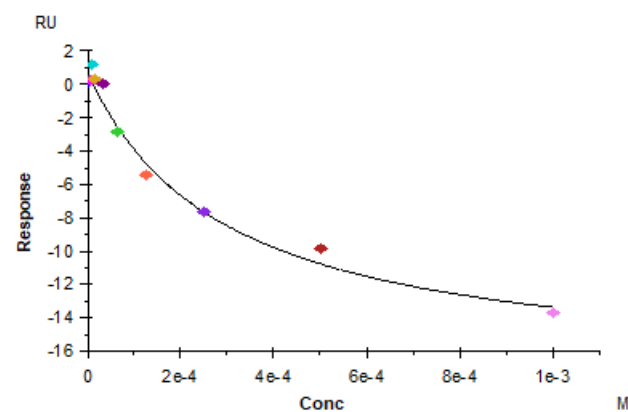
- 20 mM HEPES, pH 7.5
- 10 mM MgCl₂
- 200 mM NaCl
- 5% DMSO

Temperature: 15 °C

AMPPCP (1 mM top concentration)

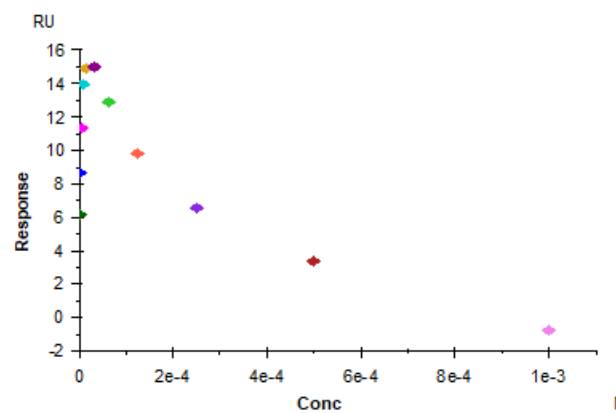
Fc2-1 *Pa*MurE

$K_D = 295 \text{ uM}$



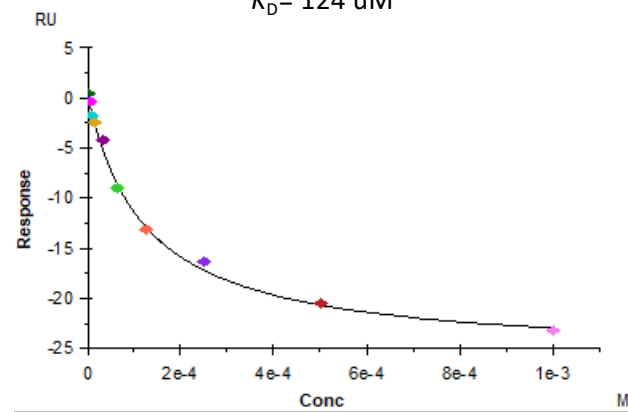
Fc4-1 *Pa*MurD

2 binding events

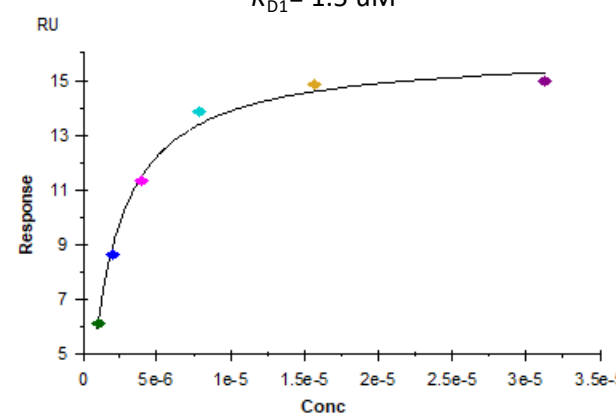


Fc3-1 *Pa*MurC

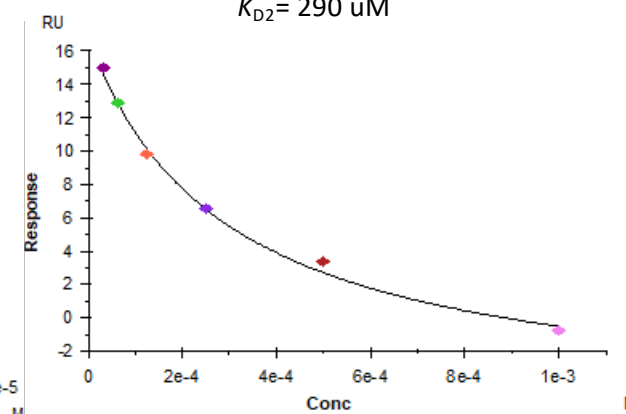
$K_D = 124 \text{ uM}$



$K_{D1} = 1.5 \text{ uM}$



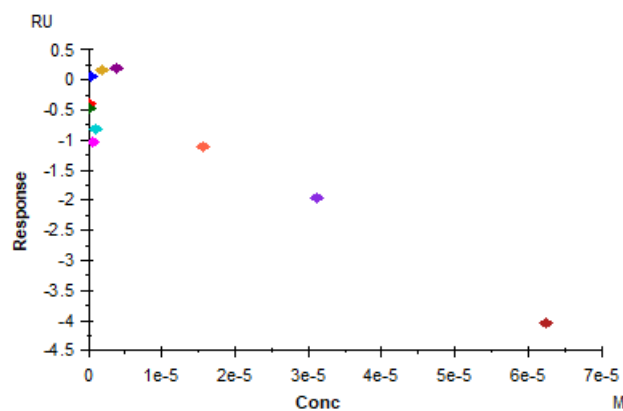
$K_{D2} = 290 \text{ uM}$



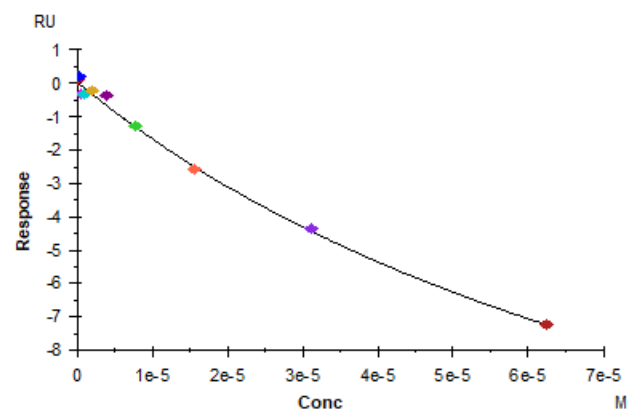
AMPPCP (62.5 uM top concentration)

Fc2-1 *Pa*MurE

The presence of 2 binding events can not be accurately determined

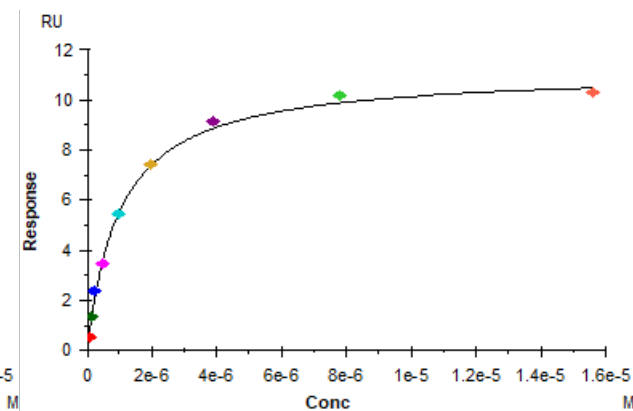


Fc3-1 *Pa*MurC



Fc4-1 *Pa*MurD

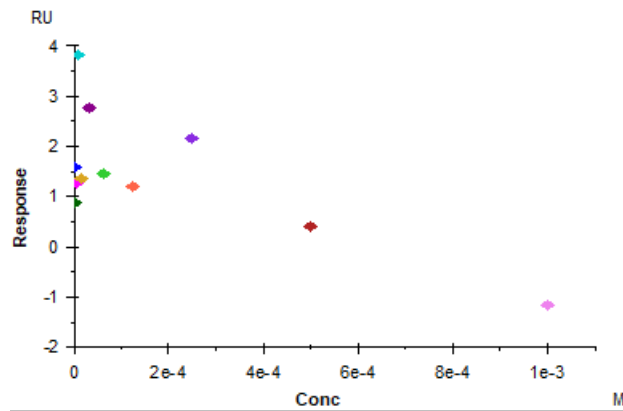
$K_{D1} = 1.0$ uM



AMPPNP (1 mM top concentration)

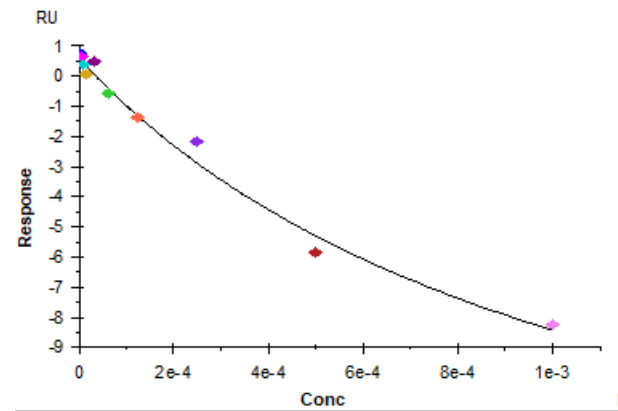
Fc2-1 *PaMurE*

Noisy data and weak signal. It looks like there is a negative signal tendency like in the case of *PaMurC*.



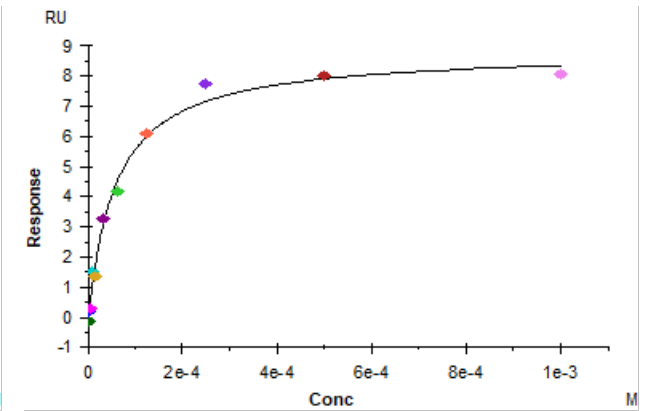
Fc3-1 *PaMurC*

$K_D > 1\text{mM}$

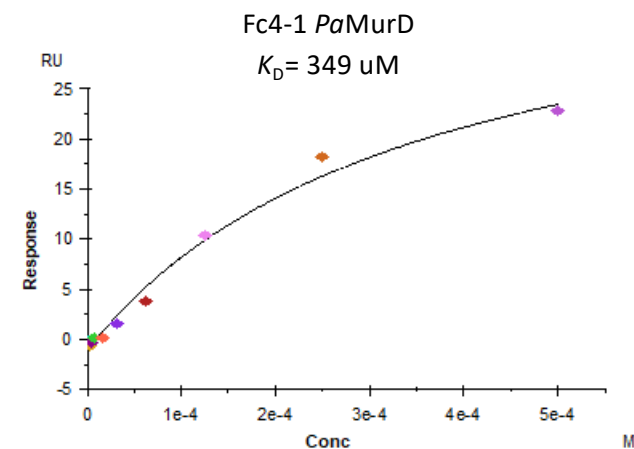
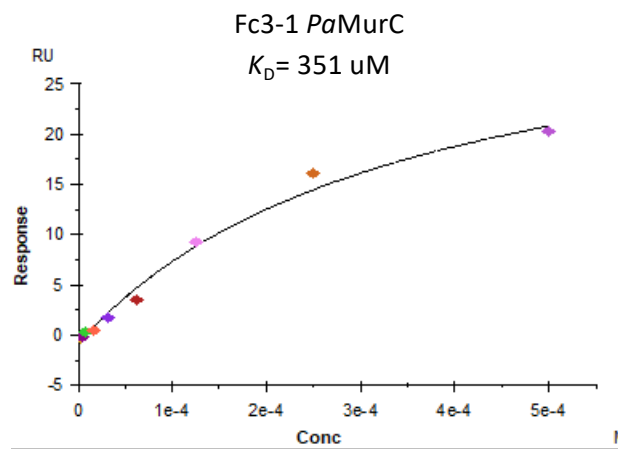
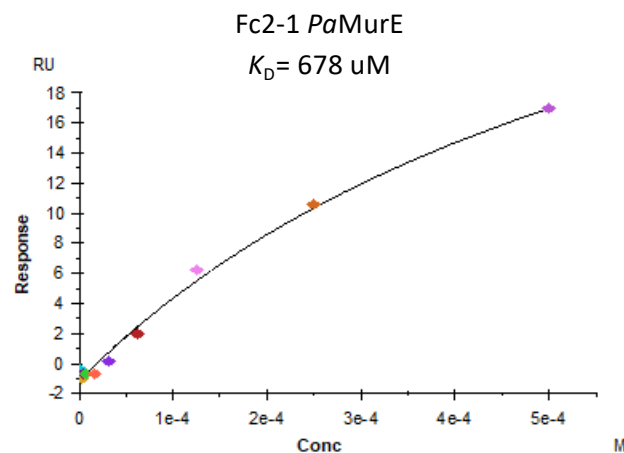


Fc4-1 *PaMurD*

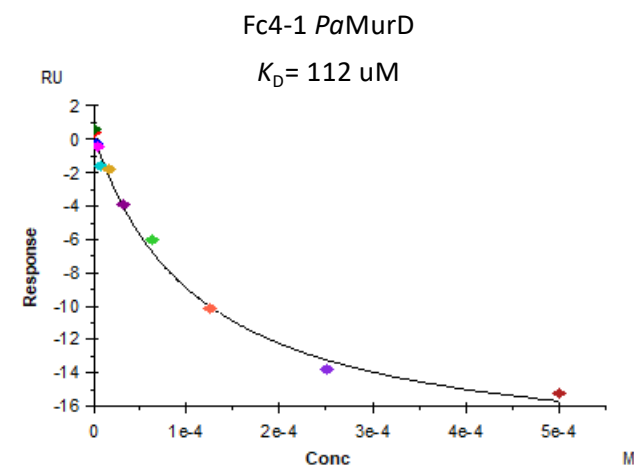
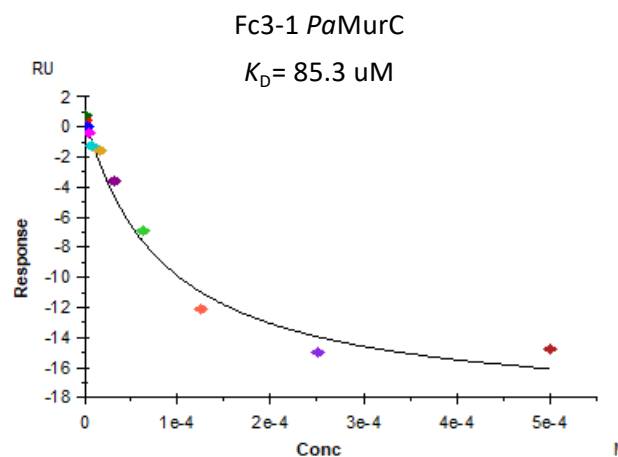
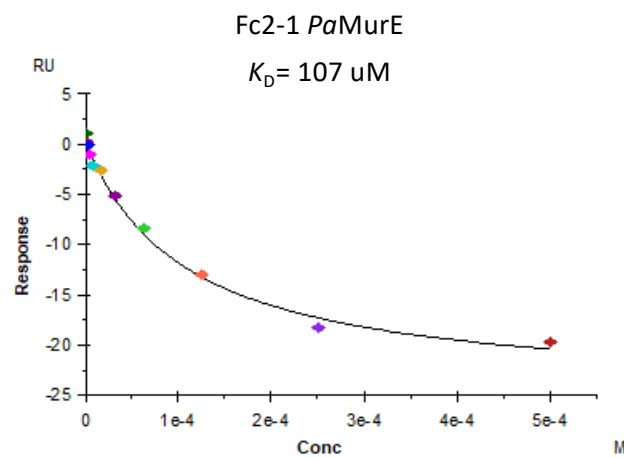
$K_D = 56.6\text{ }\mu\text{M}$



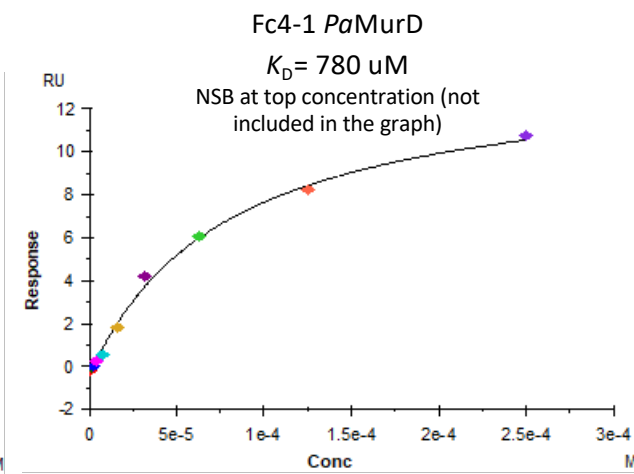
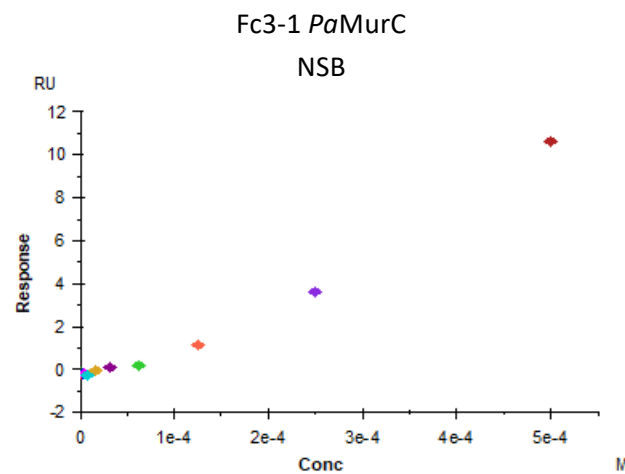
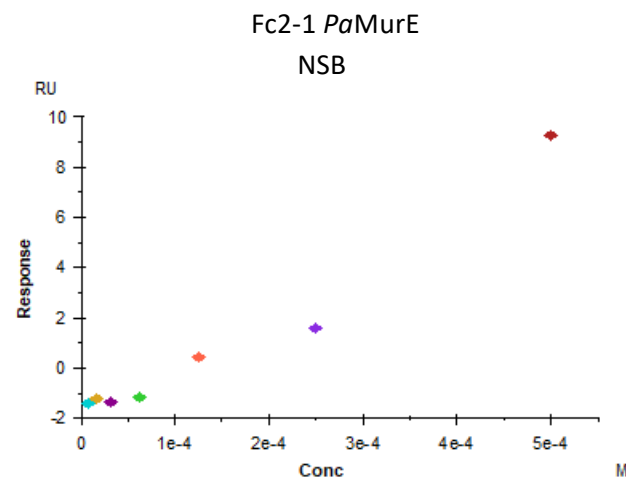
AW_13: Z165884072



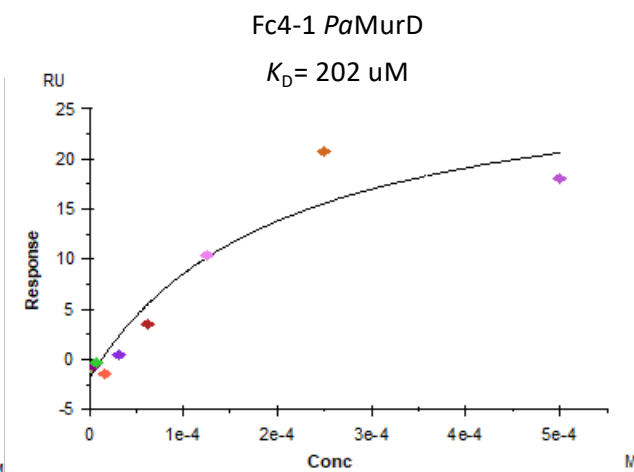
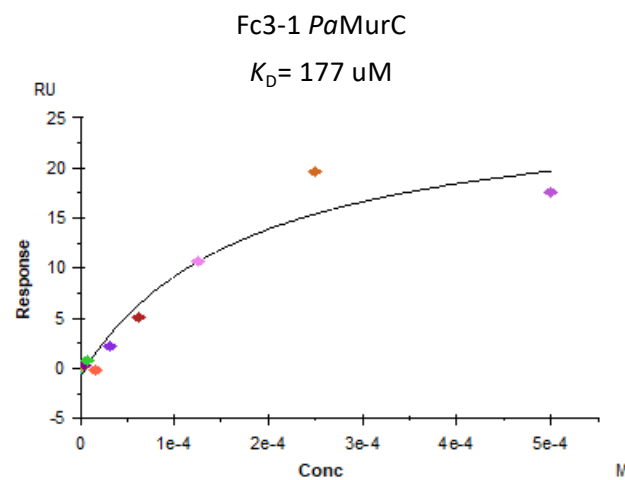
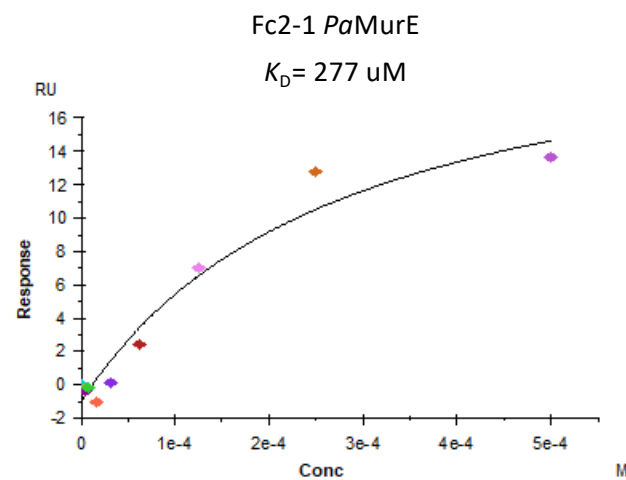
AW_35: Z1216046212



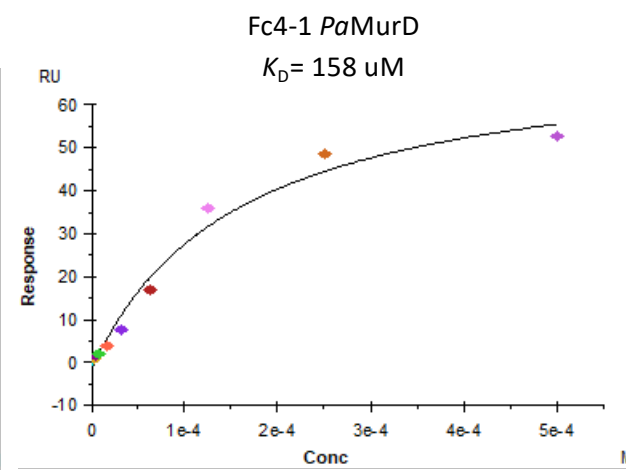
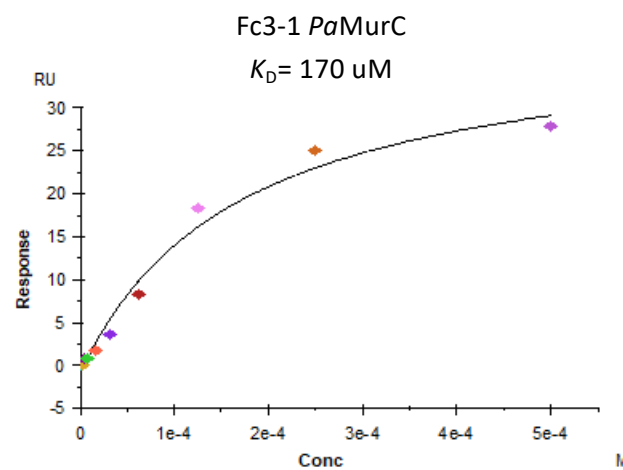
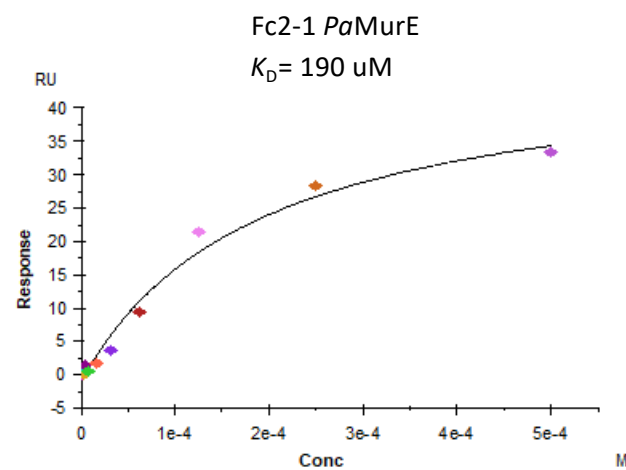
AW_51: Z1482058551



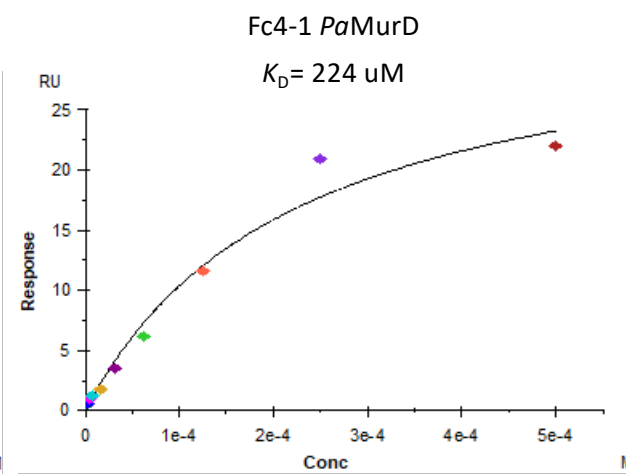
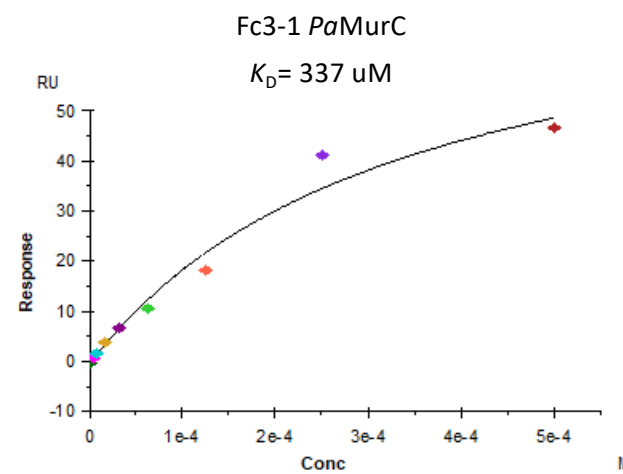
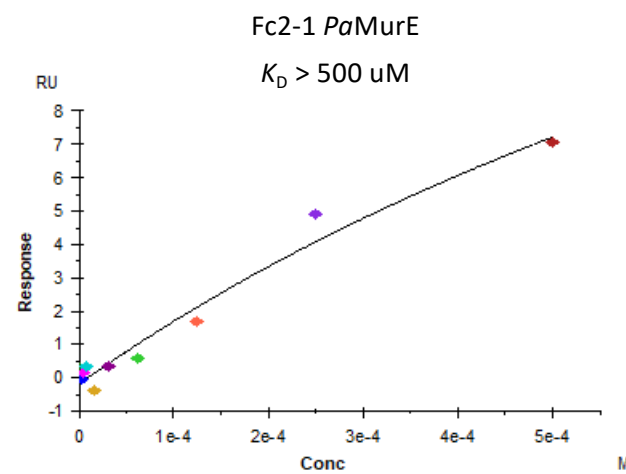
AW_58: Z1564321265



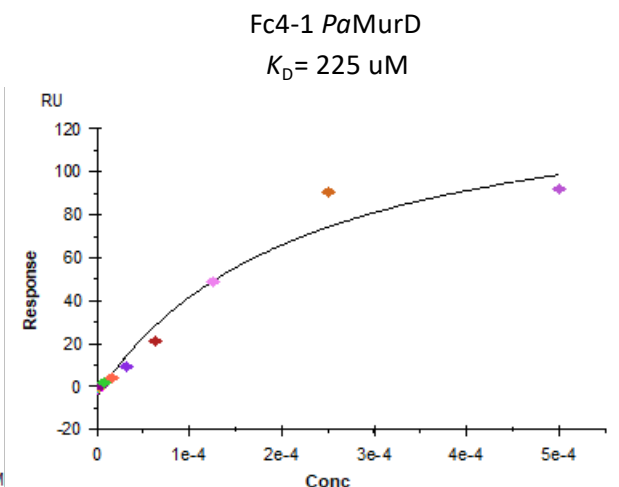
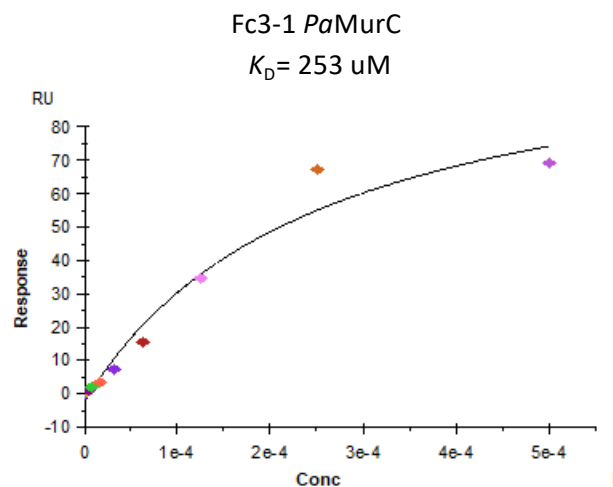
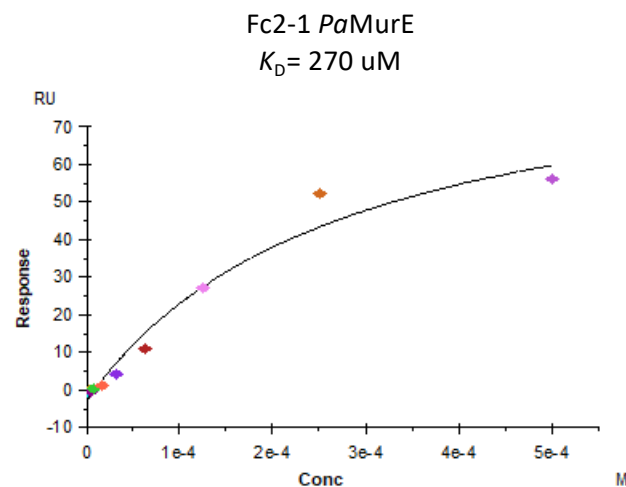
AW_63: Z1720524522



AW_64: Z152415522



AW_69: Z1410859450



AW_72: Z193623960

