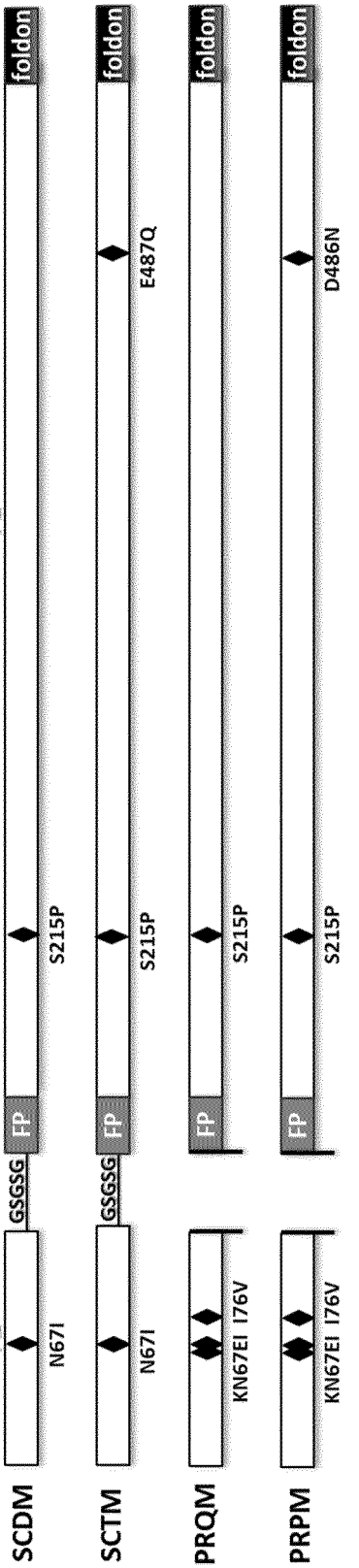

F1
F2
foldon
FP
GSGSG
S215P
E487Q
D486N
N67I
KN67EI I76V
SCDM
SCTM
PRQM
PRPM

FIG. 1

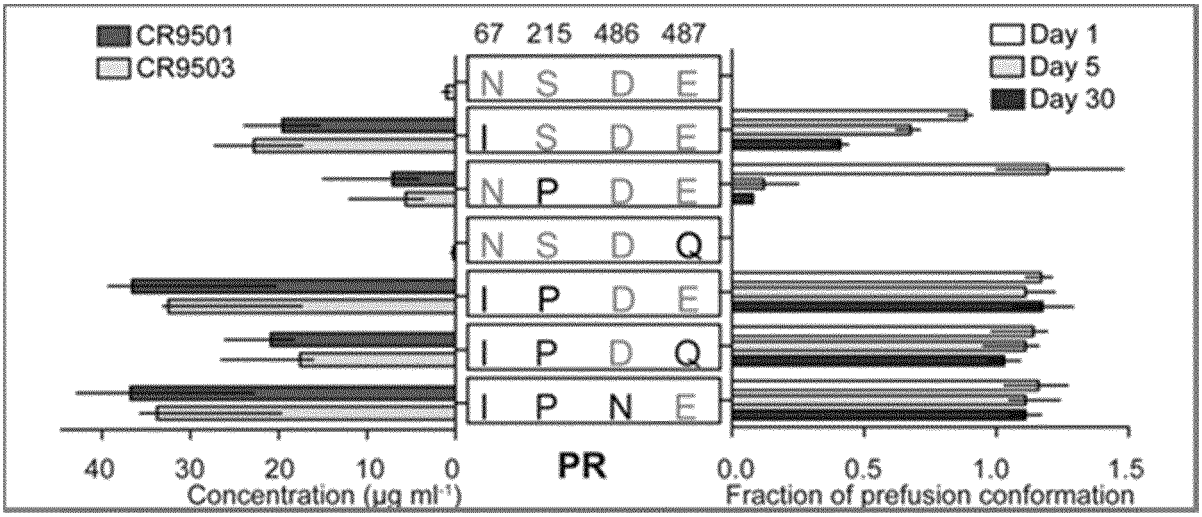

CR9501
CR9503
67 215 486 487
N S D E
I S D E
N P D E
N S D Q
I P D E
I P D Q
I P N E
Day 1
Day 5
Day 30
40 30 20 10 0
Concentration (μg ml-1)
PR
0.0 0.5 1.0 1.5
Fraction of prefusion conformation

FIG. 2

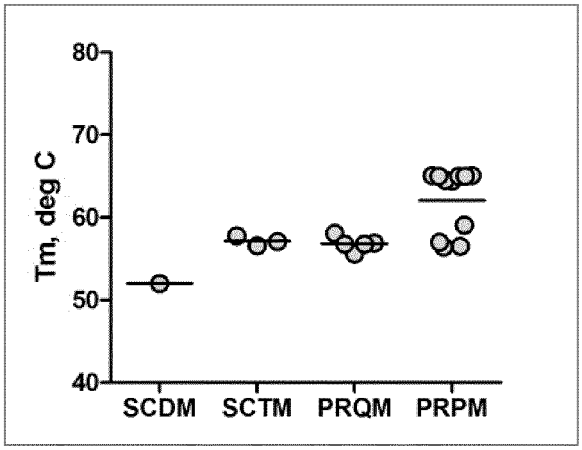


FIG. 3

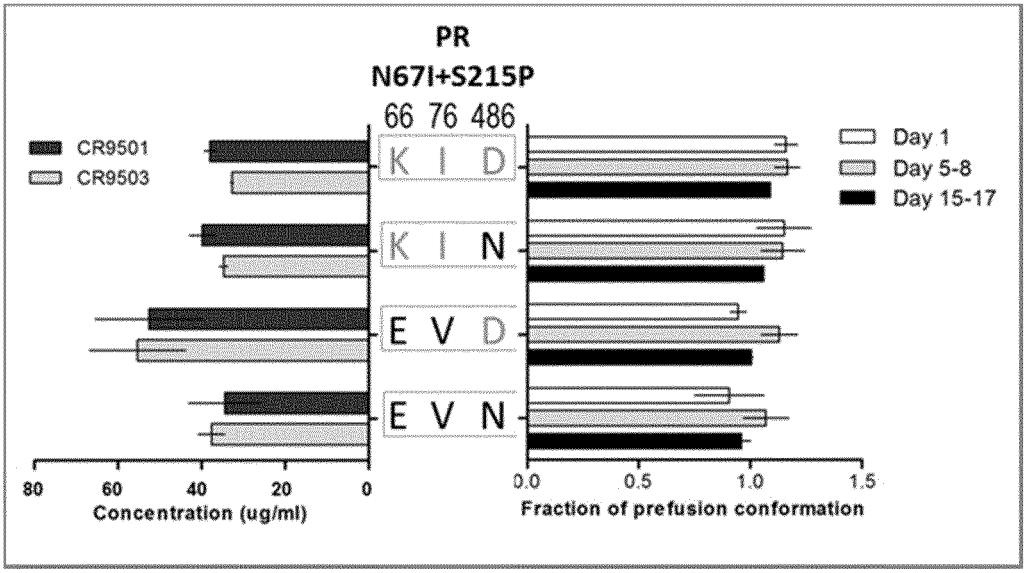

PR
N67I+S215P
66 76 486
K I D
K I N
E V D
E V N
CR9501
CR9503
Day 1
Day 5-8
Day 15-17
80 60 40 20 0
Concentration (ug/ml)
0.0 0.5 1.0 1.5
Fraction of prefusion conformation

FIG. 4

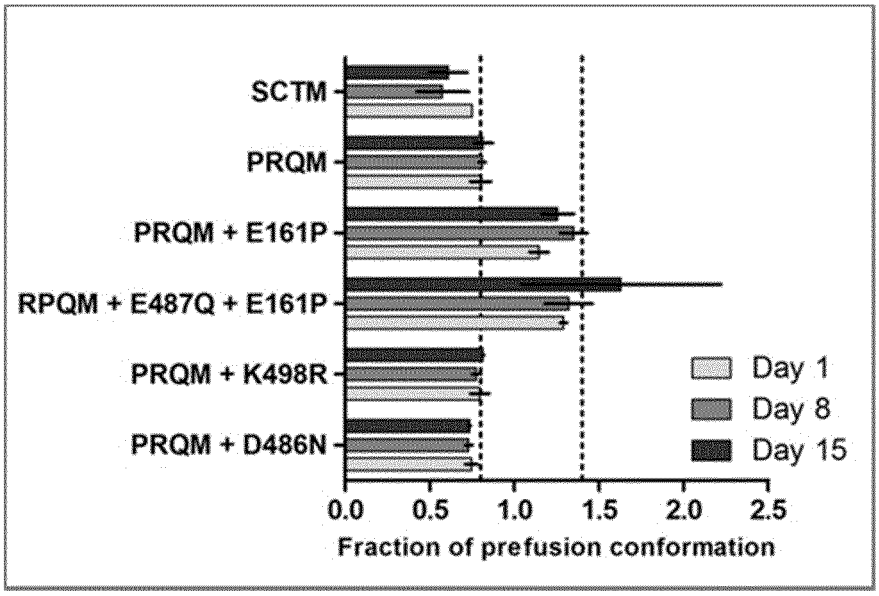
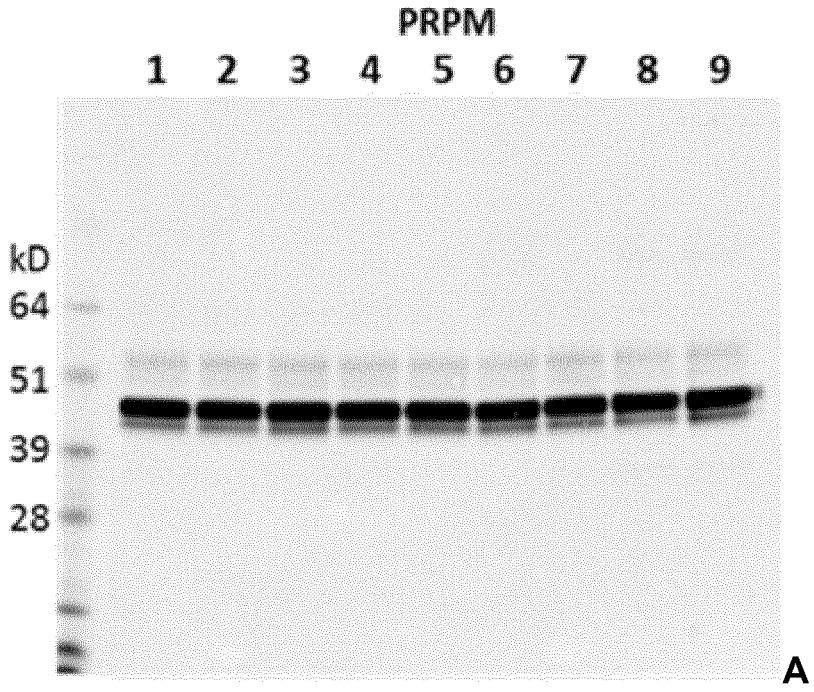

SCTM
PRQM
PRQM + E161P
RPQM + E487Q + E161P
PRQM + K498R
PRQM + D486N
Day 1
Day 8
Day 15
0.0
0.5
1.0
1.5
2.0
2.5
Fraction of prefusion conformation

FIG. 5


PRPM
1 2 3 4 5 6 7 8 9
kD
64
51
39
28
A

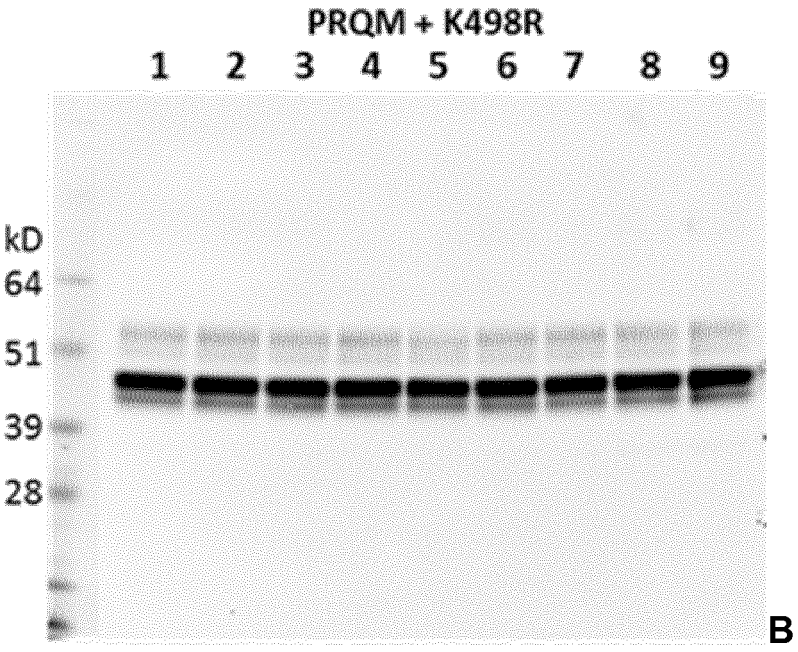
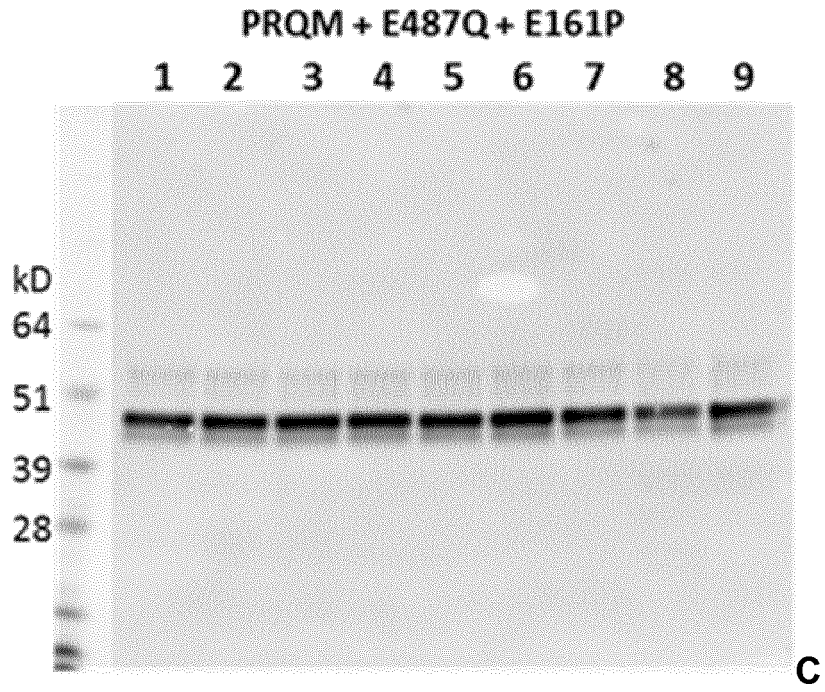

PRQM + K498R
1 2 3 4 5 6 7 8 9
kD
64
51
39
28
B

FIG. 6



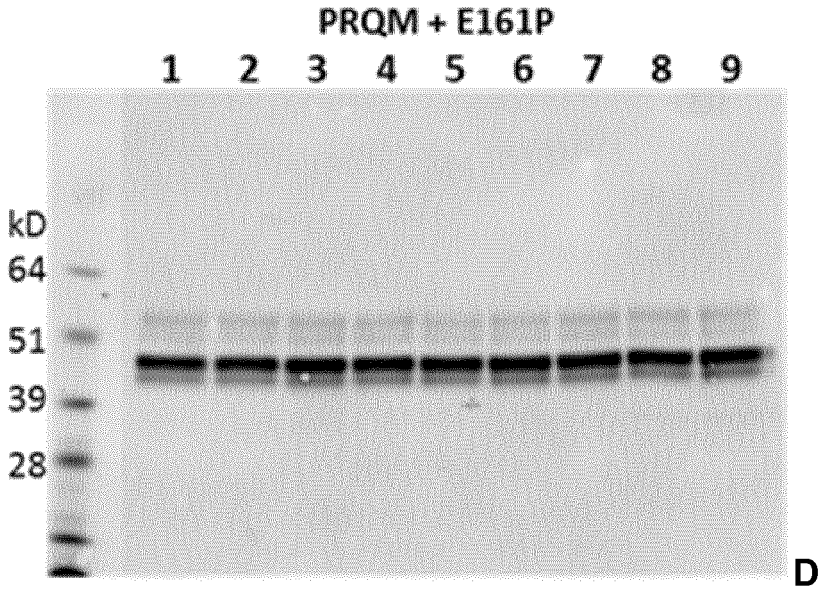
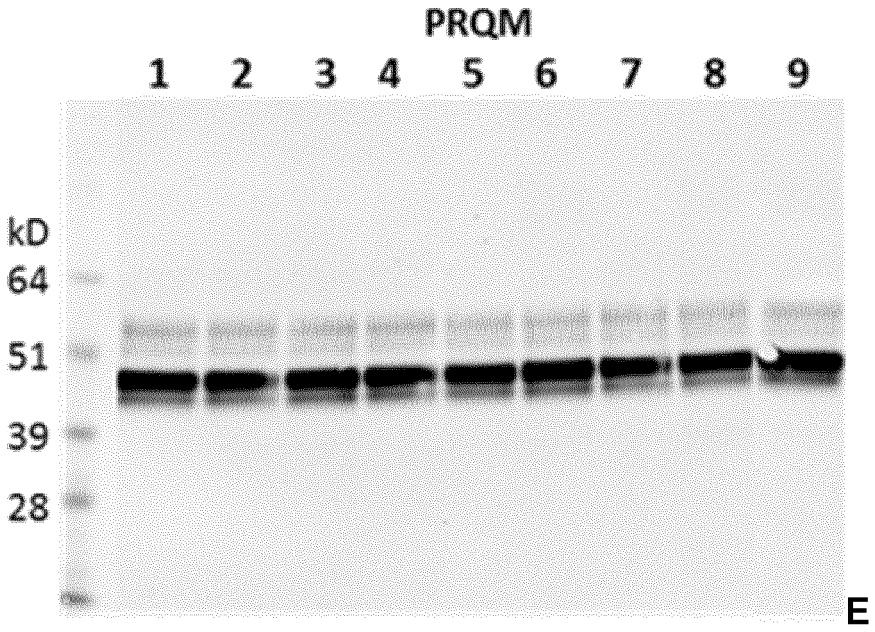


FIG. 6 - continued



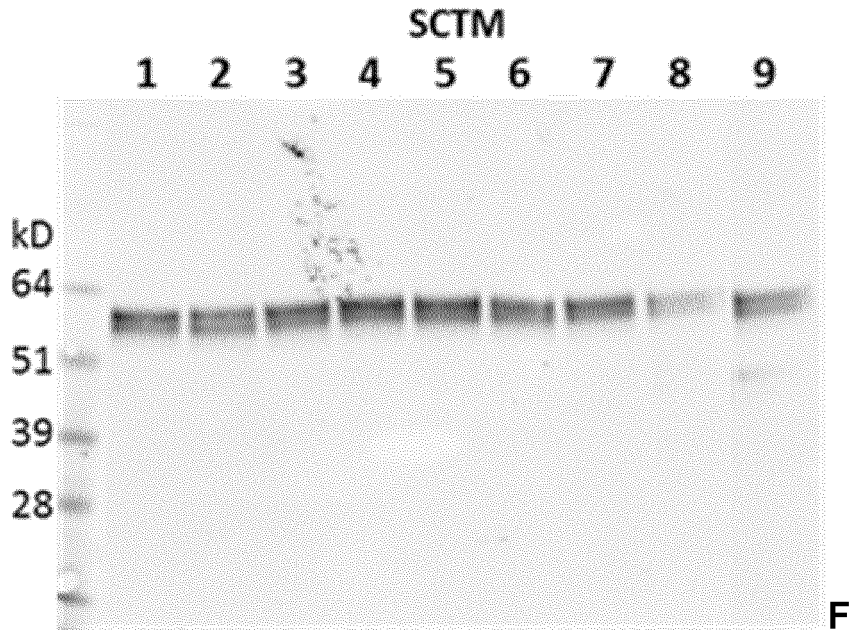
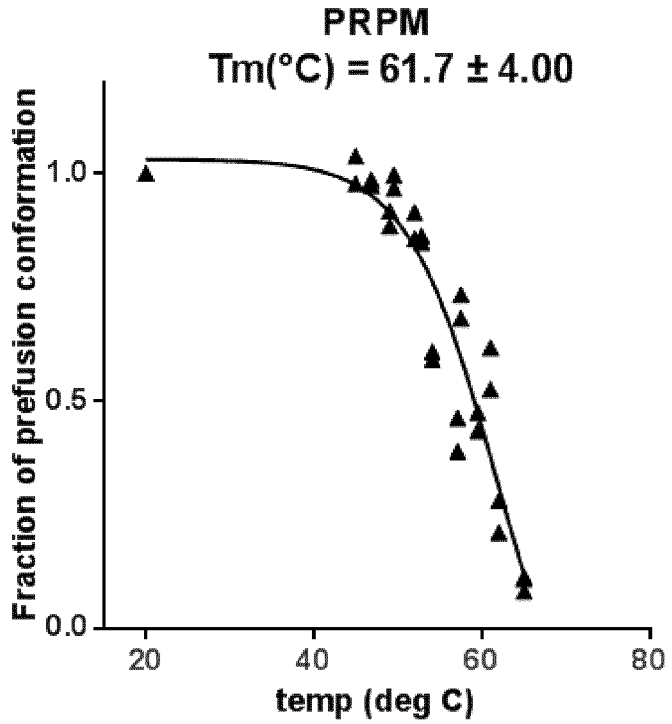
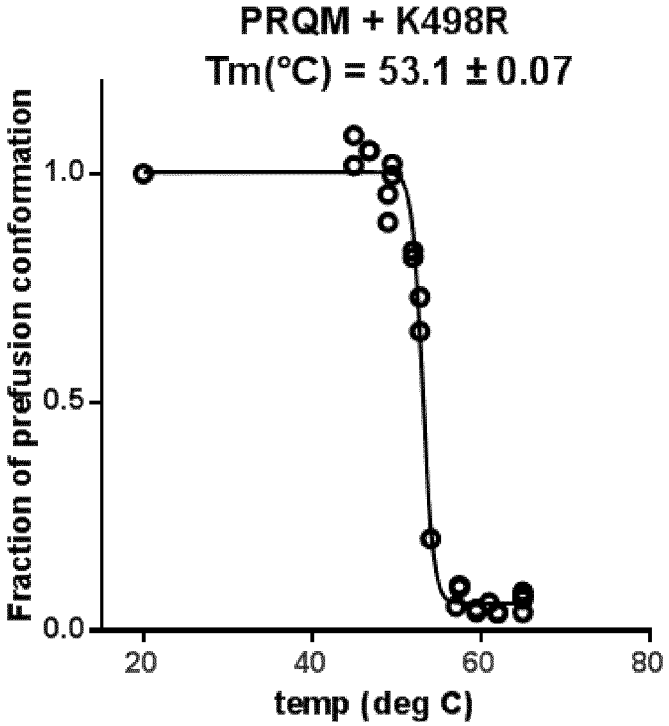


FIG. 6 - continued

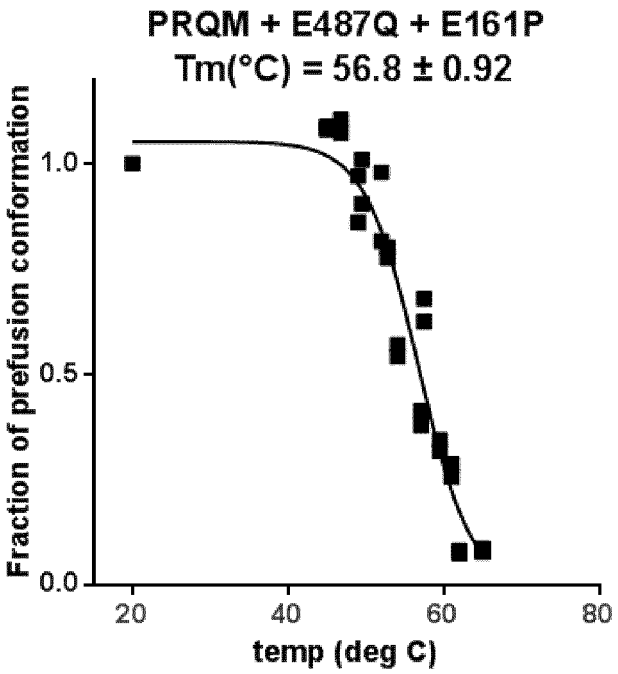

PRPM
Tm(°C) = 61.7 ± 4.00
Fraction of prefusion conformation
1.0
0.5
0.0
20
40
60
80
temp (deg C)

A

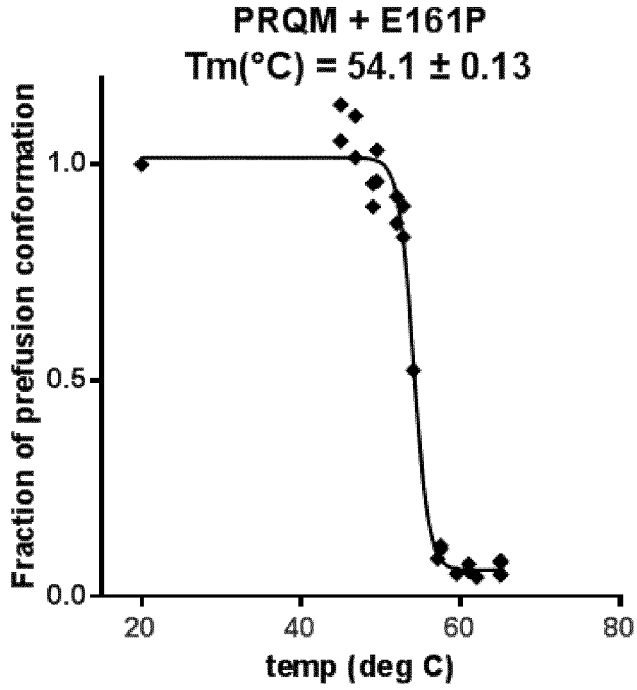

PRQM + K498R
Tm(°C) = 53.1 ± 0.07
Fraction of prefusion conformation
1.0
0.5
0.0
20
40
60
80
temp (deg C)

B

FIG. 7

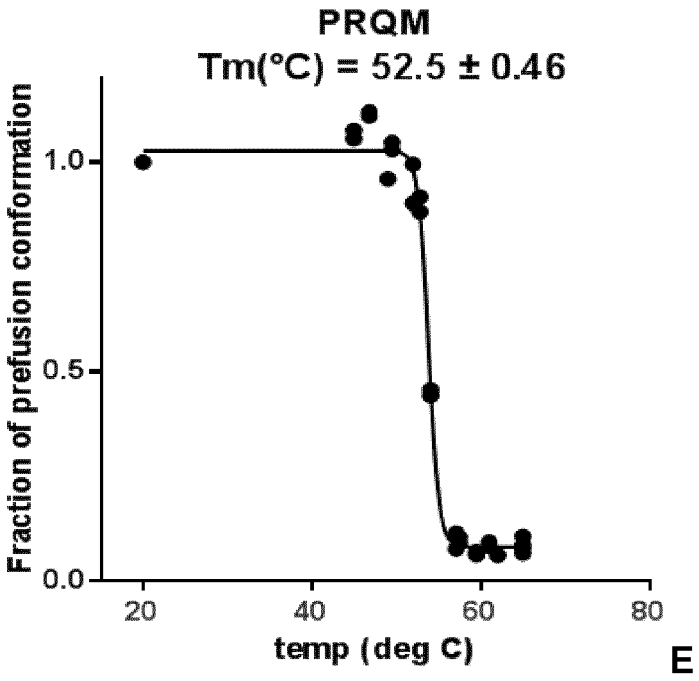


C



D

FIG 7. - continued



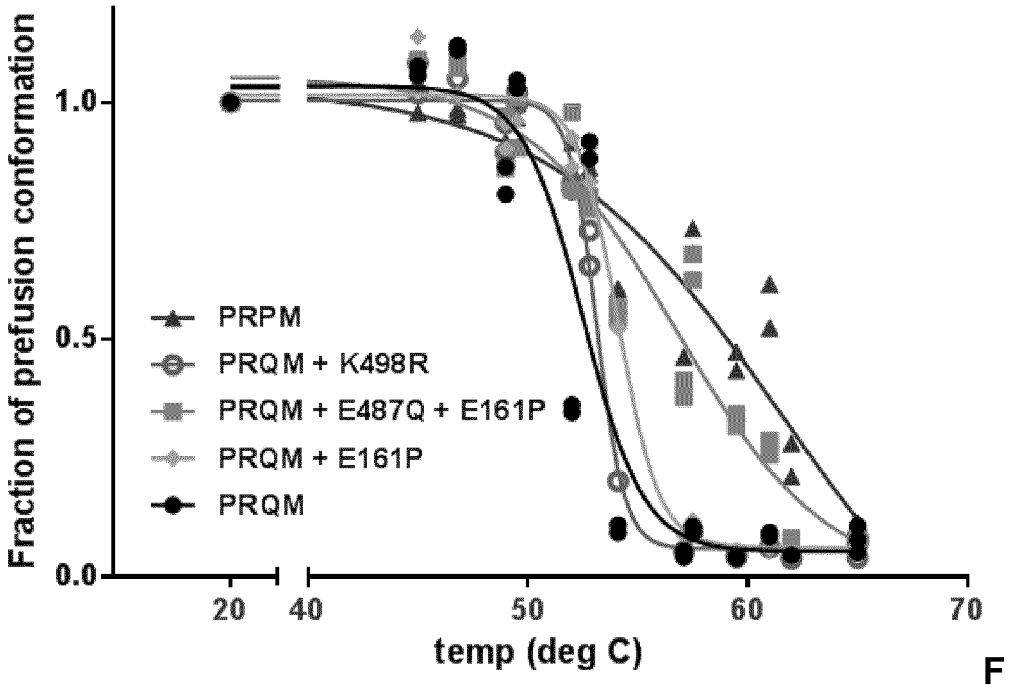


FIG 7. - continued

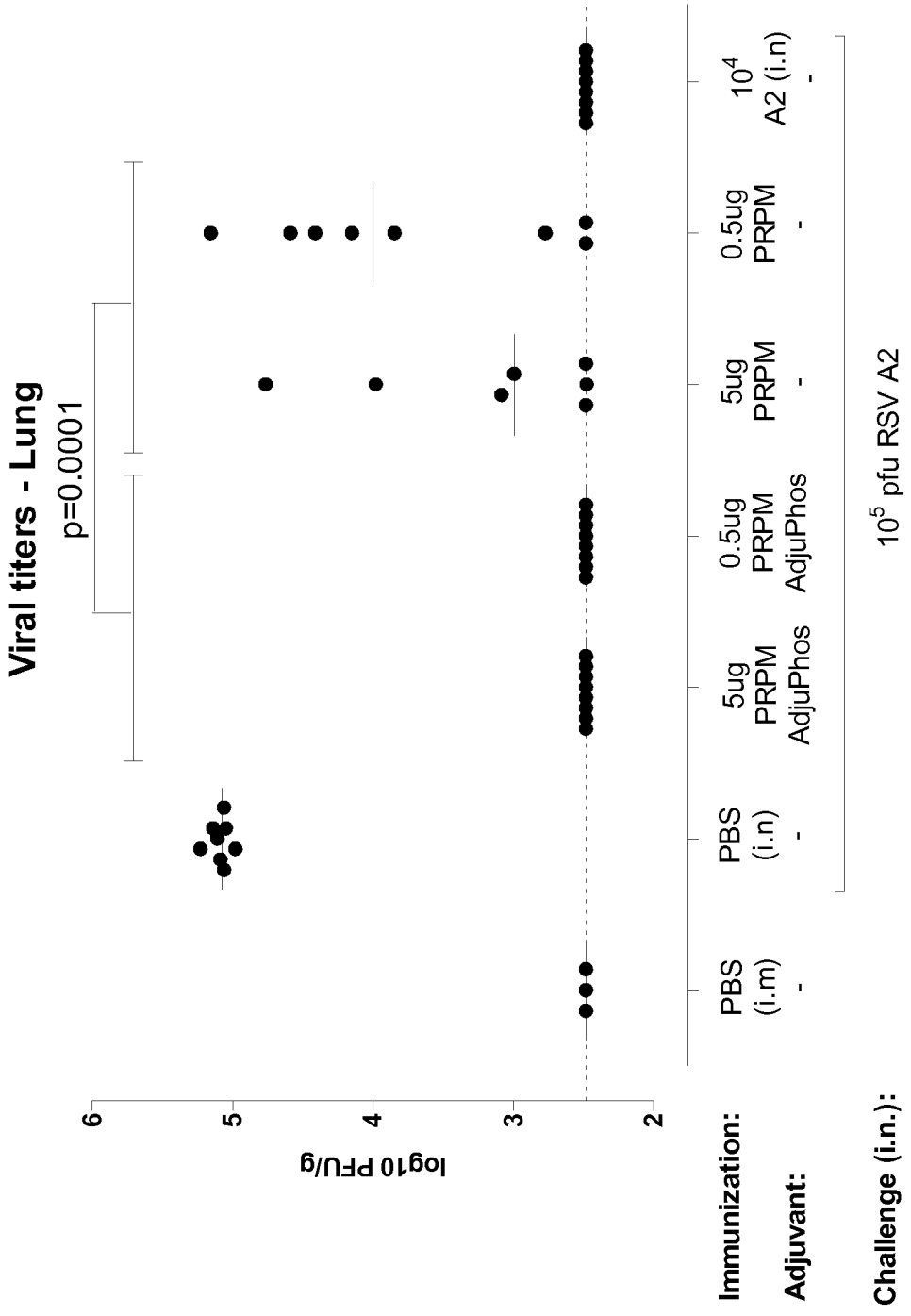

Viral titers - Lung
p=0.0001
log10 PFU/g
6
5
4
3
2
Immunization:
Adjuvant:
Challenge (i.n.):
PBS (i.m)
-
PBS (i.n)
-
5ug PRPM AdjuPhos
0.5ug PRPM AdjuPhos
5ug PRPM -
0.5ug PRPM -
10^4 A2 (i.n)
-
10^5 pfu RSV A2

FIG. 8

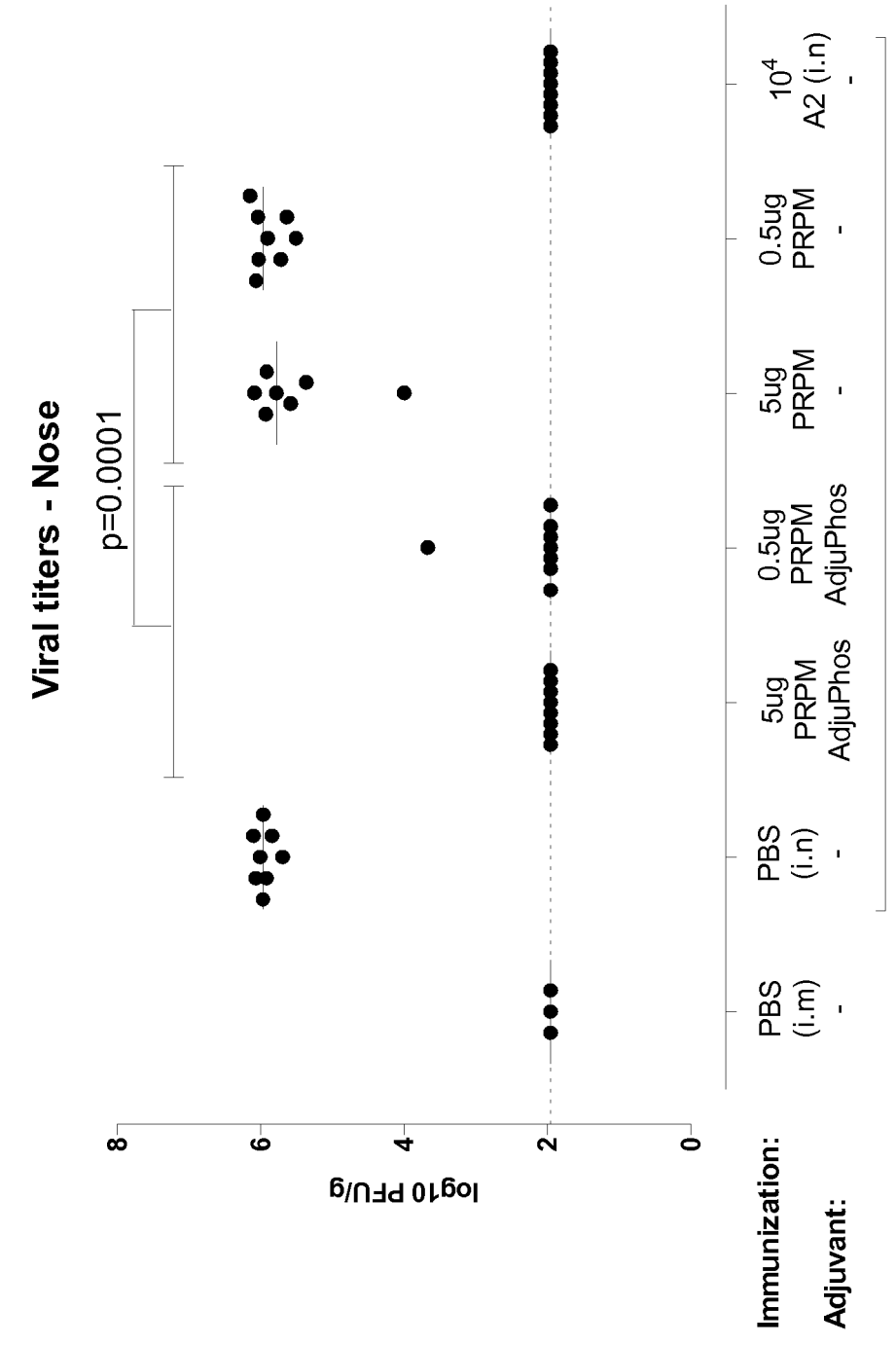


FIG. 8 – continued

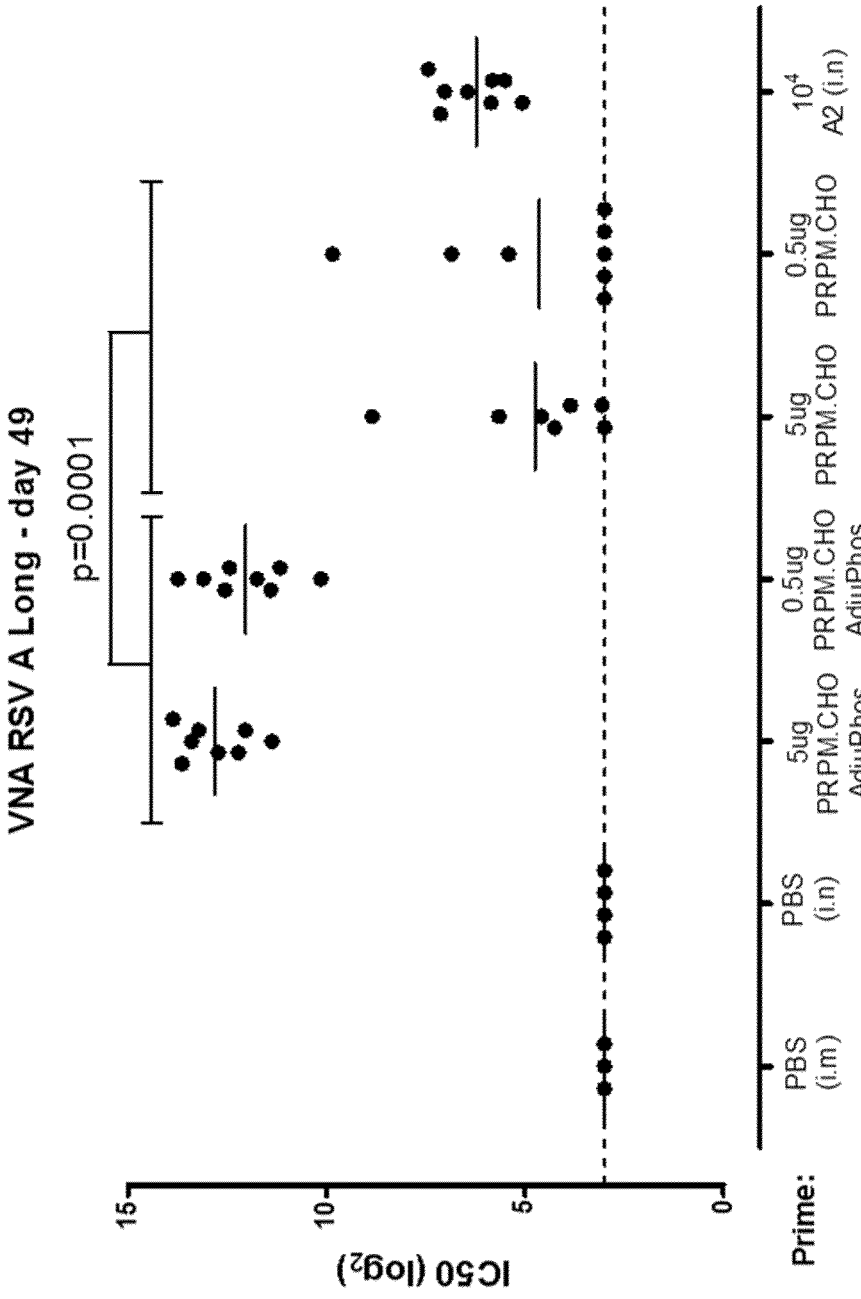

VNA RSV A Long - day 49
p=0.0001
IC50 (log2)
15
10
5
0
Prime:
PBS (i.m)
PBS (i.n)
5ug PRPM.CHO AdjuPhos
0.5ug PRPM.CHO AdjuPhos
5ug PRPM.CHO
0.5ug PRPM.CHO
10^4 A2 (i.n)

FIG. 9