Figure 1A

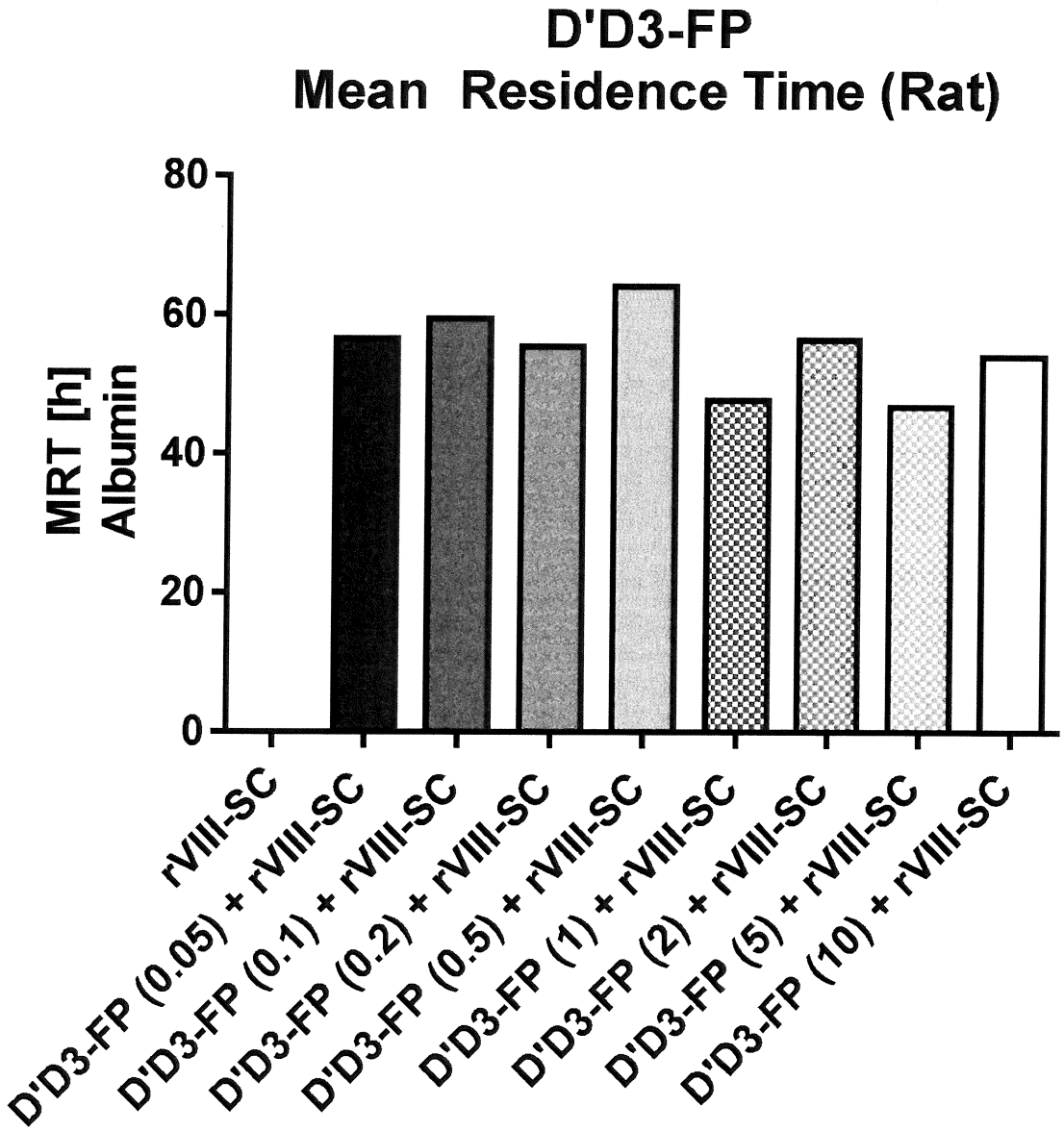

D'D3-FP
Mean Residence Time (Rat)
MRT [h]
Albumin
80
60
40
20
0
rVIII-SC
D'D3-FP (0.05) + rVIII-SC
D'D3-FP (0.1) + rVIII-SC
D'D3-FP (0.2) + rVIII-SC
D'D3-FP (0.5) + rVIII-SC
D'D3-FP (1) + rVIII-SC
D'D3-FP (2) + rVIII-SC
D'D3-FP (5) + rVIII-SC
D'D3-FP (10) + rVIII-SC

Figure 1B

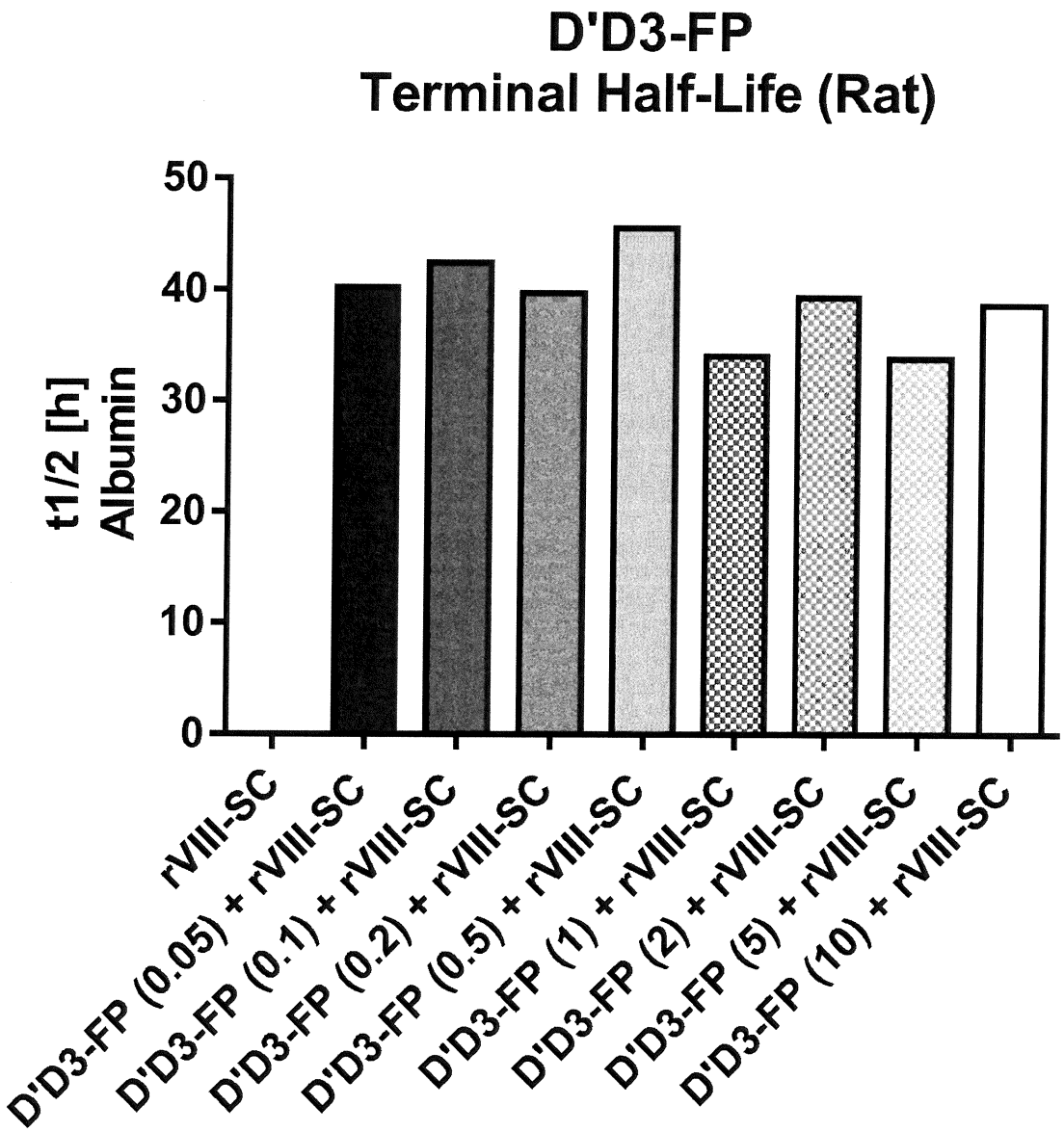

D'D3-FP
Terminal Half-Life (Rat)
t1/2 [h]
Albumin
50
40
30
20
10
0
rVIII-SC
D'D3-FP (0.05) + rVIII-SC
D'D3-FP (0.1) + rVIII-SC
D'D3-FP (0.2) + rVIII-SC
D'D3-FP (0.5) + rVIII-SC
D'D3-FP (1) + rVIII-SC
D'D3-FP (2) + rVIII-SC
D'D3-FP (5) + rVIII-SC
D'D3-FP (10) + rVIII-SC

Figure 1C

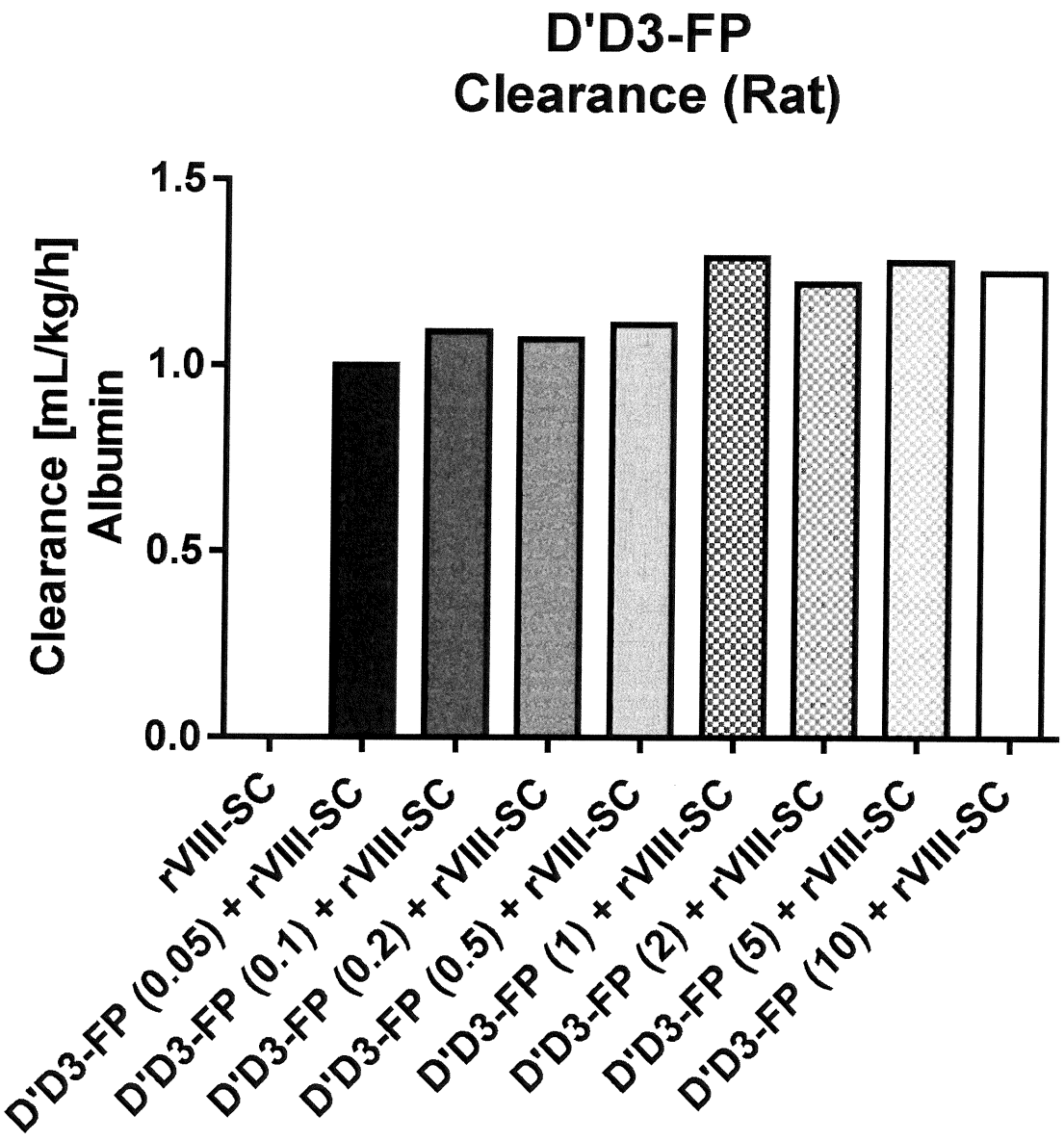

D'D3-FP
Clearance (Rat)
Clearance [mL/kg/h]
Albumin
1.5
1.0
0.5
0.0
rVIII-SC
D'D3-FP (0.05) + rVIII-SC
D'D3-FP (0.1) + rVIII-SC
D'D3-FP (0.2) + rVIII-SC
D'D3-FP (0.5) + rVIII-SC
D'D3-FP (1) + rVIII-SC
D'D3-FP (2) + rVIII-SC
D'D3-FP (5) + rVIII-SC
D'D3-FP (10) + rVIII-SC

Figure 2A

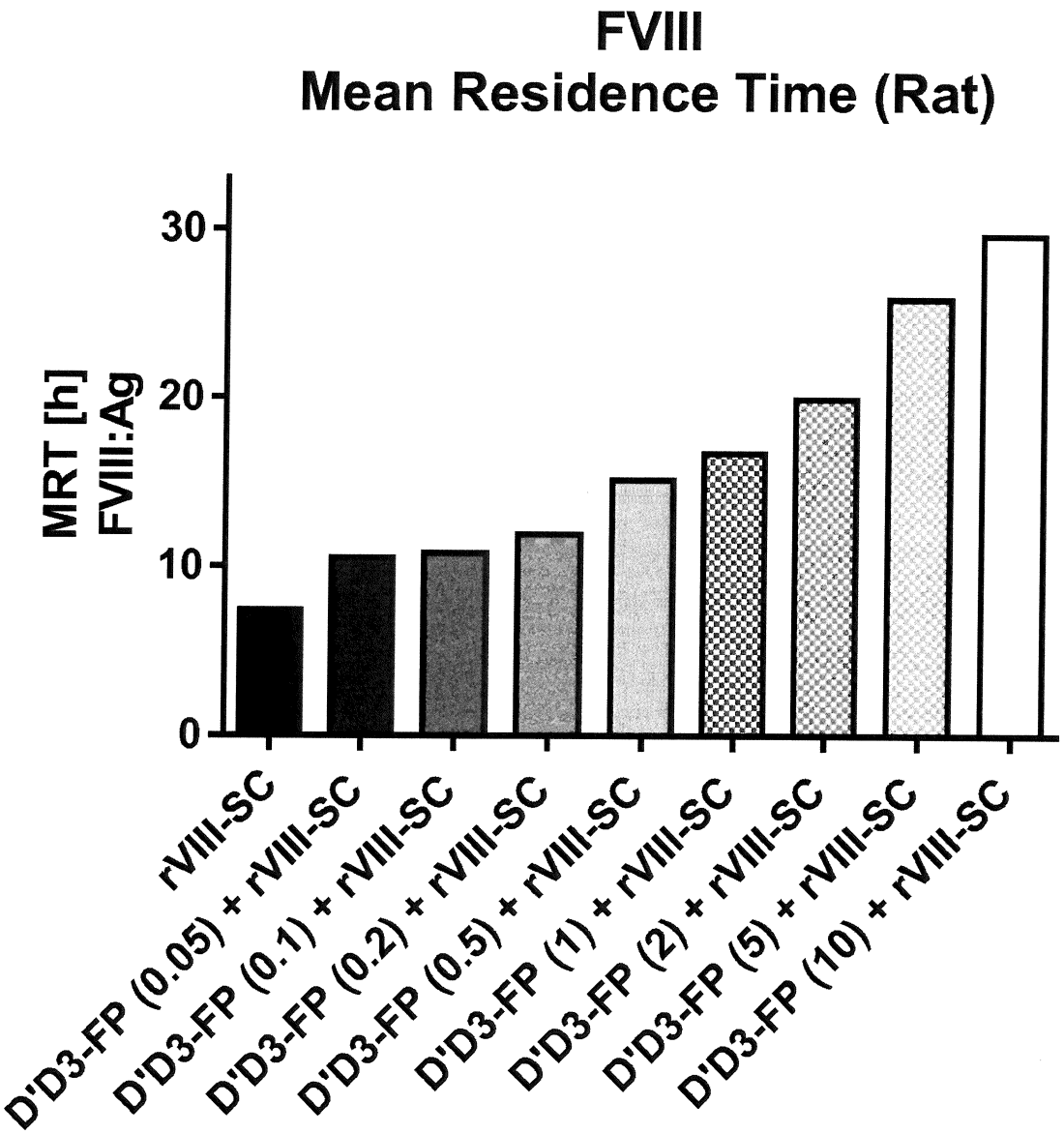

FVIII
Mean Residence Time (Rat)
MRT [h]
FVIII:Ag
30
20
10
0
rVIII-SC
D'D3-FP (0.05) + rVIII-SC
D'D3-FP (0.1) + rVIII-SC
D'D3-FP (0.2) + rVIII-SC
D'D3-FP (0.5) + rVIII-SC
D'D3-FP (1) + rVIII-SC
D'D3-FP (2) + rVIII-SC
D'D3-FP (5) + rVIII-SC
D'D3-FP (10) + rVIII-SC

Figure 2B

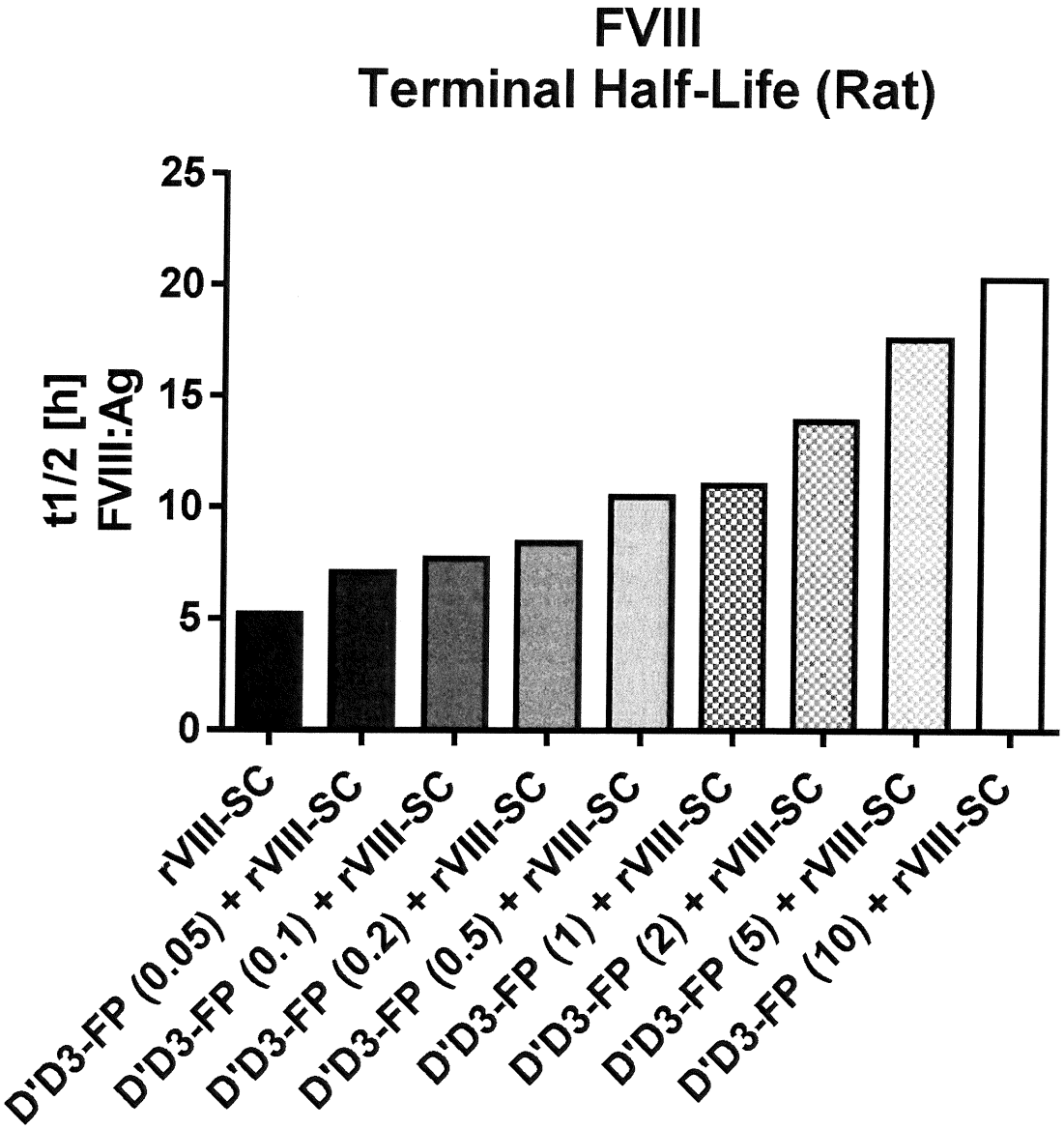

FVIII
Terminal Half-Life (Rat)
t1/2 [h]
FVIII:Ag
25
20
15
10
5
0
rVIII-SC
D'D3-FP (0.05) + rVIII-SC
D'D3-FP (0.1) + rVIII-SC
D'D3-FP (0.2) + rVIII-SC
D'D3-FP (0.5) + rVIII-SC
D'D3-FP (1) + rVIII-SC
D'D3-FP (2) + rVIII-SC
D'D3-FP (5) + rVIII-SC
D'D3-FP (10) + rVIII-SC

Figure 2C

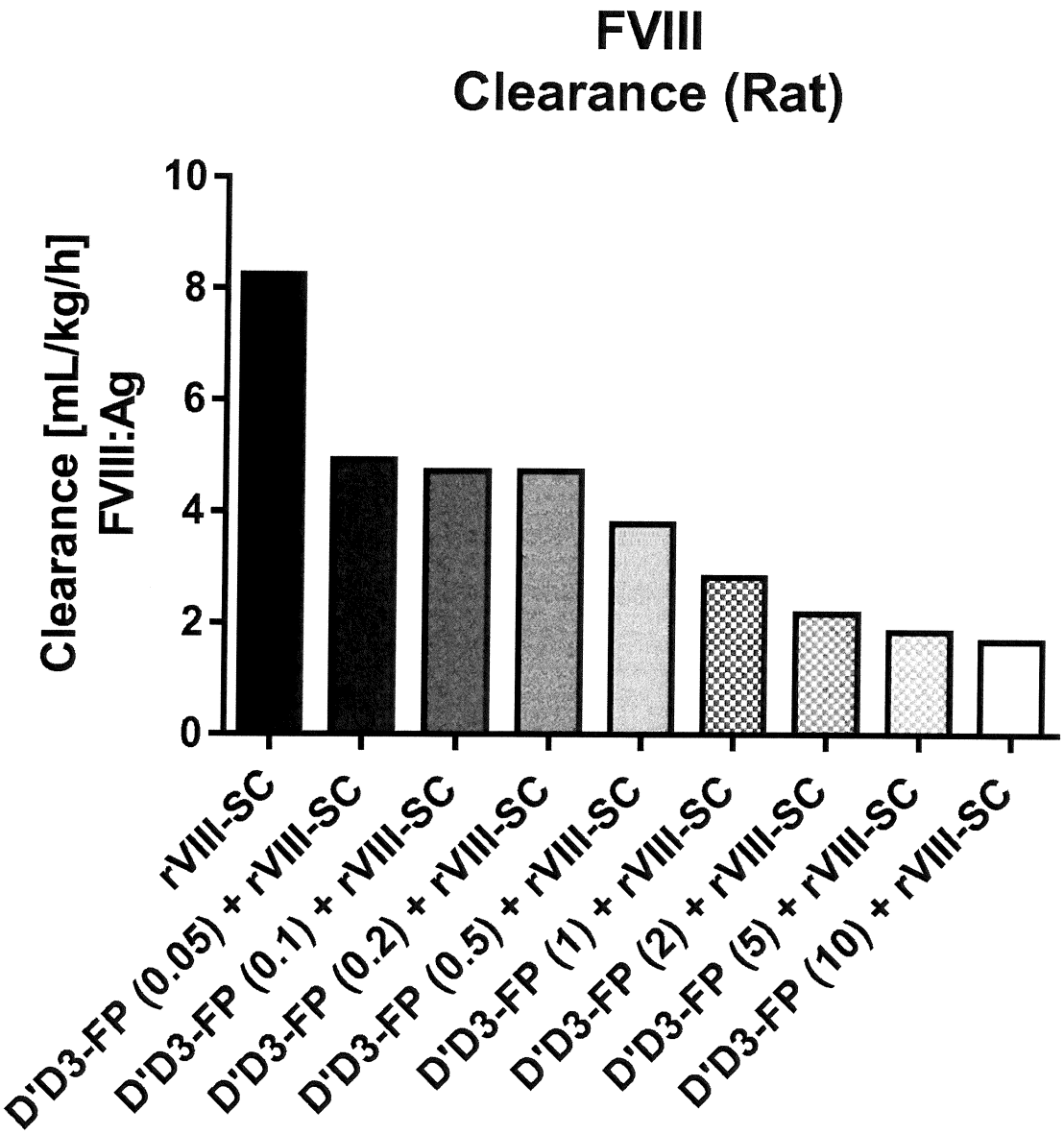

FVIII
Clearance (Rat)
Clearance [mL/kg/h]
FVIII:Ag
10
8
6
4
2
0
rVIII-SC
D'D3-FP (0.05) + rVIII-SC
D'D3-FP (0.1) + rVIII-SC
D'D3-FP (0.2) + rVIII-SC
D'D3-FP (0.5) + rVIII-SC
D'D3-FP (1) + rVIII-SC
D'D3-FP (2) + rVIII-SC
D'D3-FP (5) + rVIII-SC
D'D3-FP (10) + rVIII-SC

Figure 3A

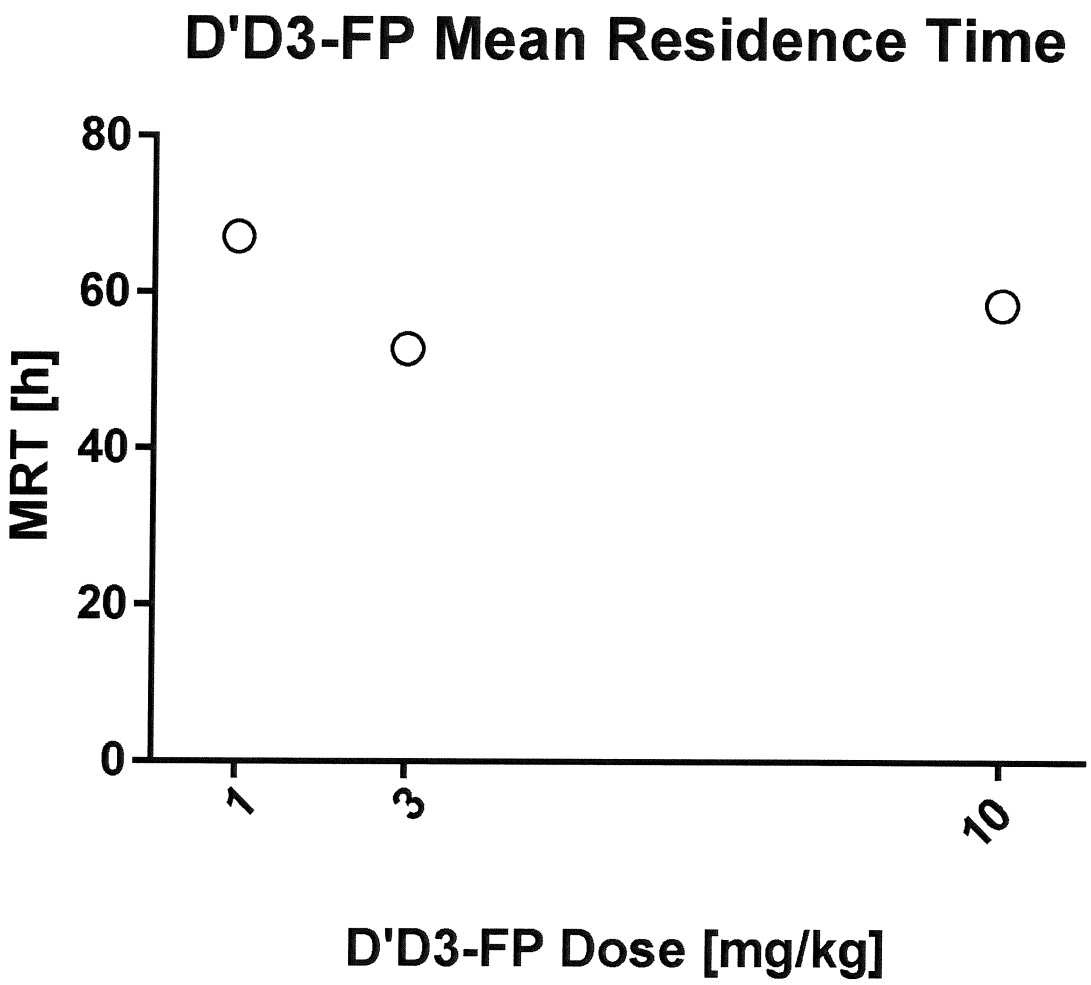

D'D3-FP Mean Residence Time
MRT [h]
80
60
40
20
0
1
3
10
D'D3-FP Dose [mg/kg]

Figure 3B

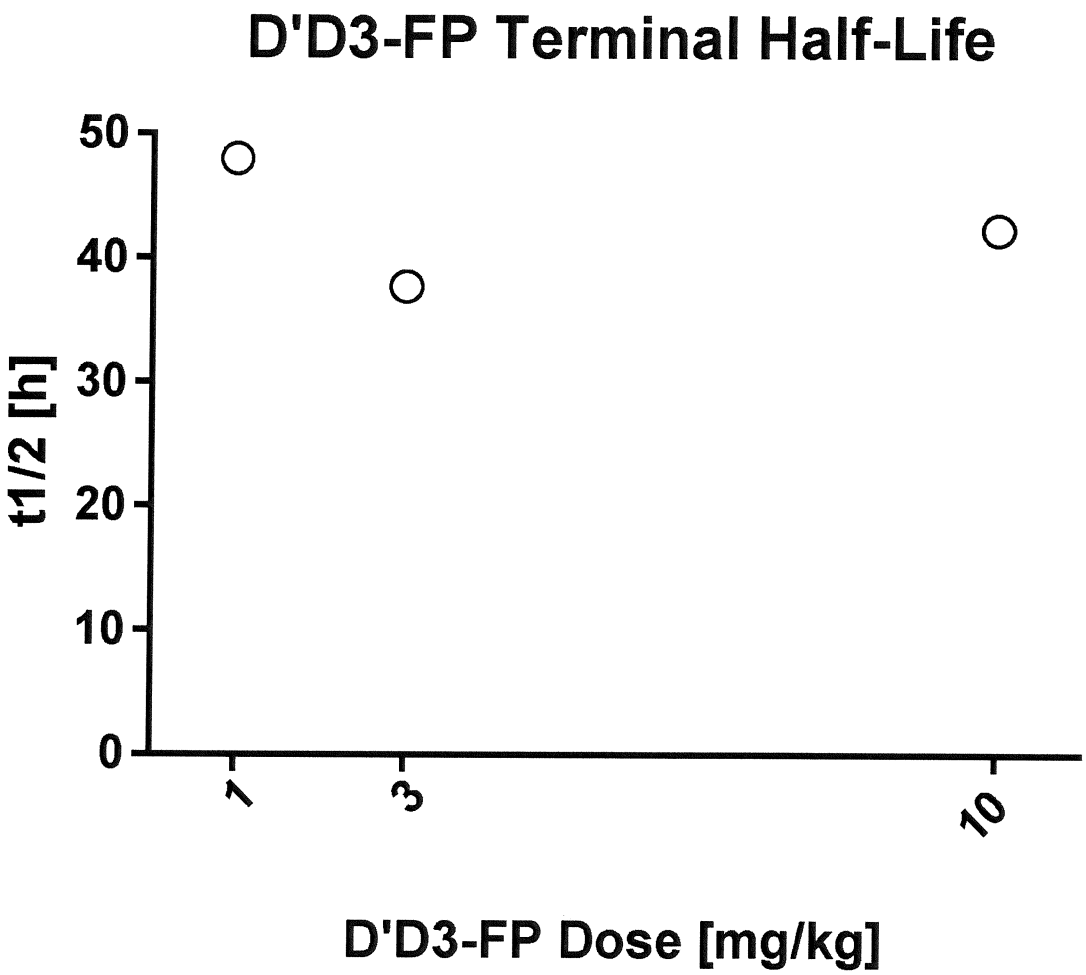

D'D3-FP Terminal Half-Life
t1/2 [h]
50
40
30
20
10
0
1
3
10
D'D3-FP Dose [mg/kg]

Figure 3C

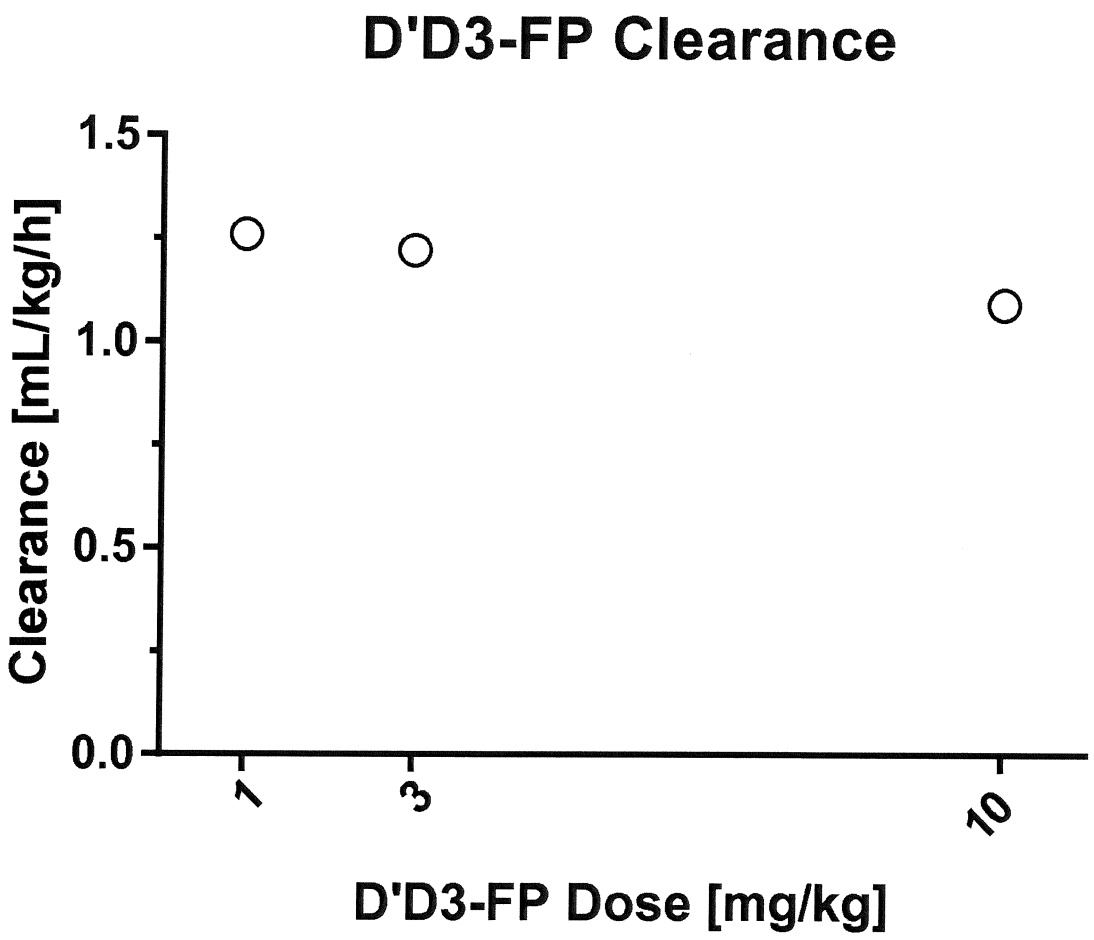

D'D3-FP Clearance
Clearance [mL/kg/h]
1.5
1.0
0.5
0.0
1
3
10
D'D3-FP Dose [mg/kg]

Figure 4A

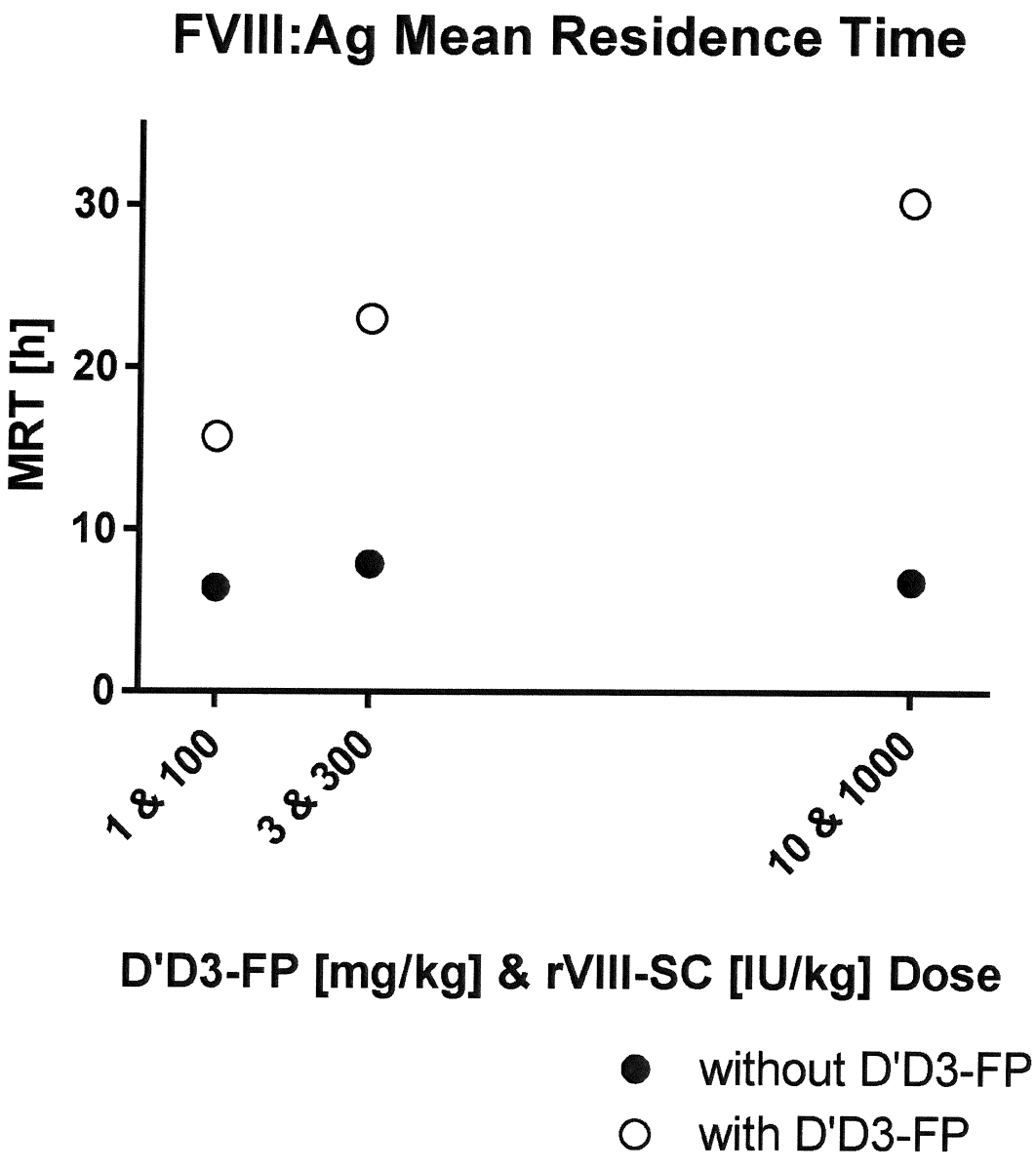

FVIII:Ag Mean Residence Time
MRT [h]
30
20
10
0
1 & 100
3 & 300
10 & 1000
D'D3-FP [mg/kg] & rVIII-SC [IU/kg] Dose
without D'D3-FP
with D'D3-FP

Figure 4B

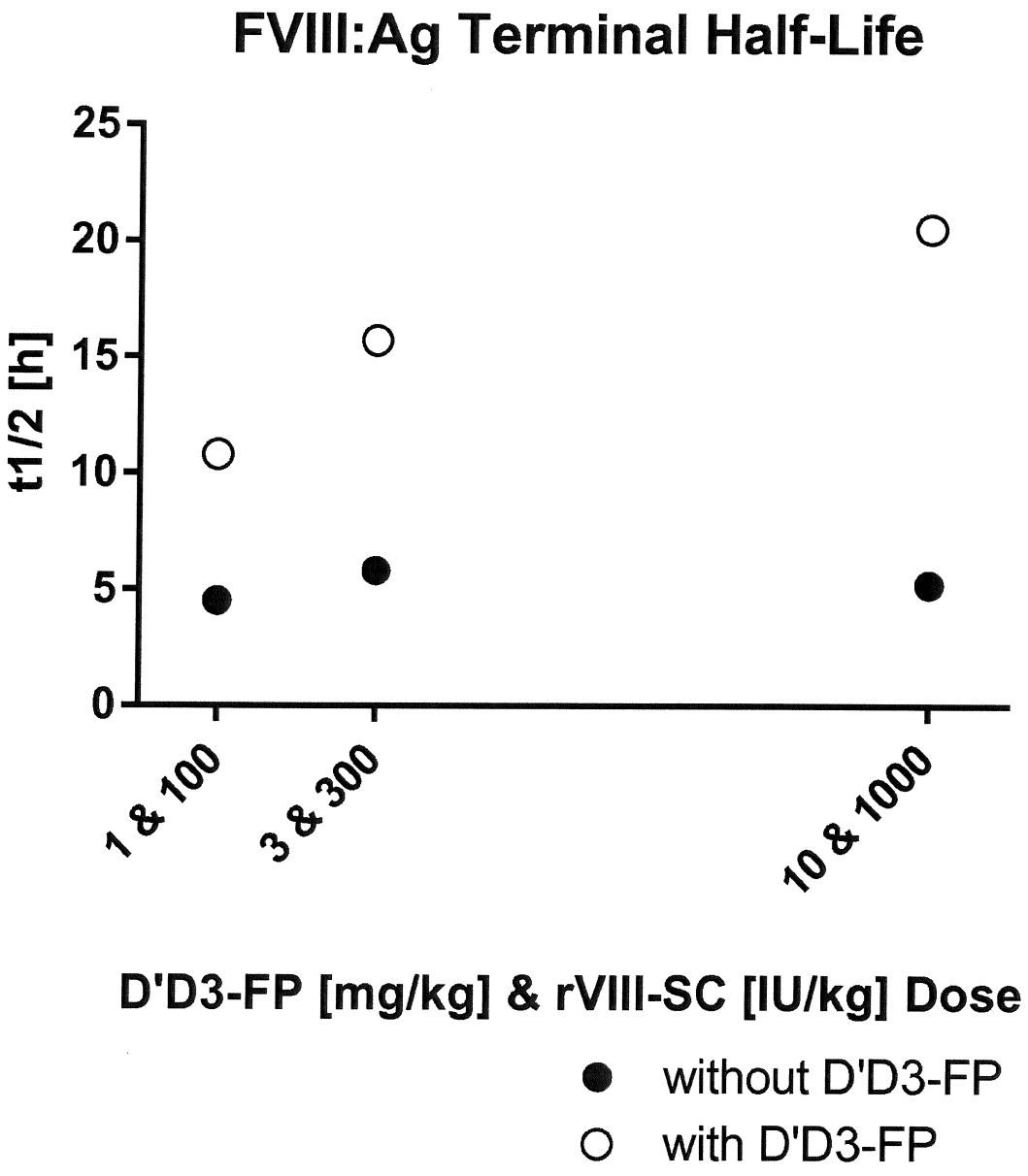

FVIII:Ag Terminal Half-Life
t1/2 [h]
25
20
15
10
5
0
1 & 100
3 & 300
10 & 1000
D'D3-FP [mg/kg] & rVIII-SC [IU/kg] Dose
without D'D3-FP
with D'D3-FP

Figure 4C

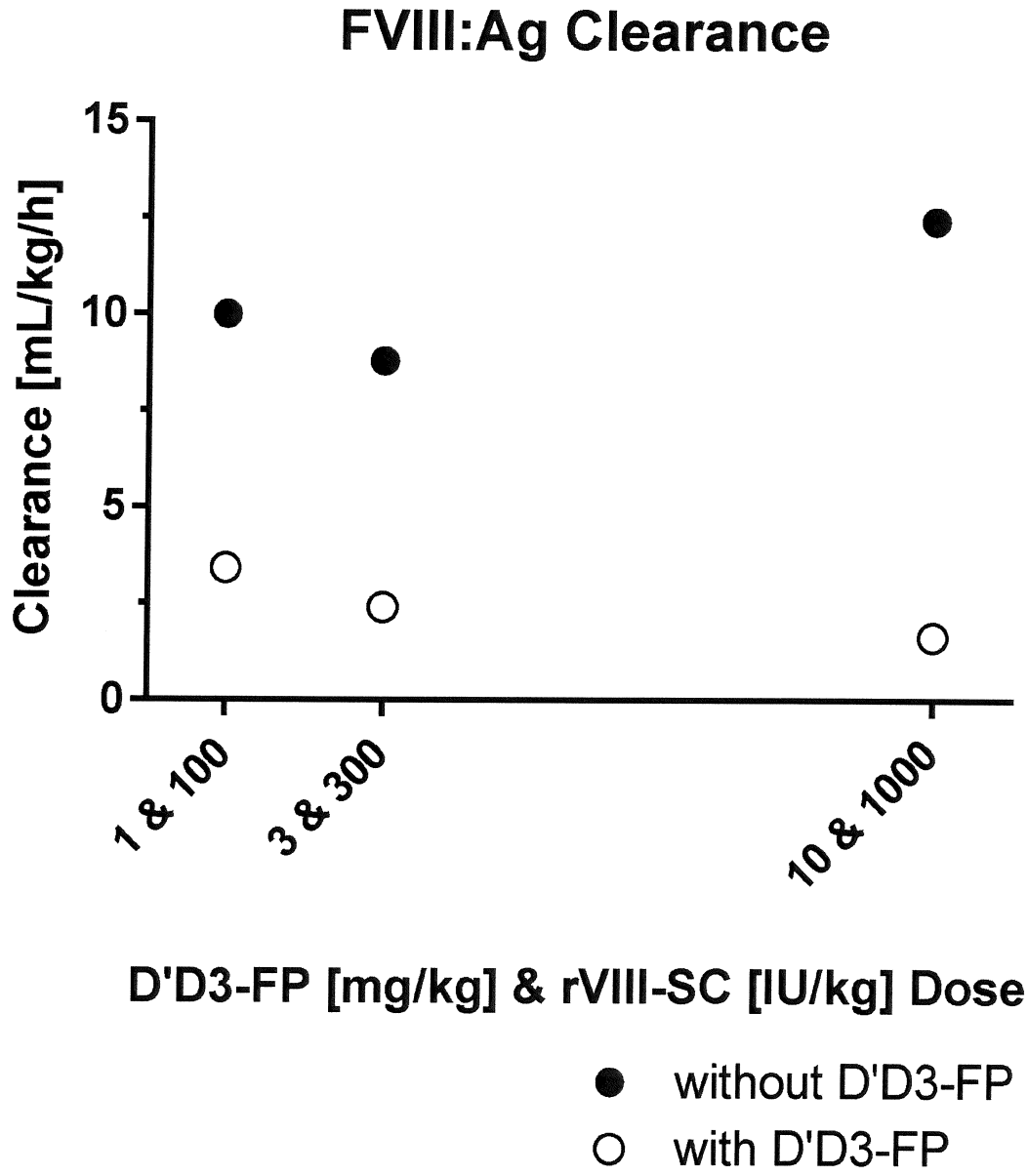

FVIII:Ag Clearance
Clearance [mL/kg/h]
15
10
5
0
1 & 100
3 & 300
10 & 1000
D'D3-FP [mg/kg] & rVIII-SC [IU/kg] Dose
without D'D3-FP
with D'D3-FP

Figure 5A

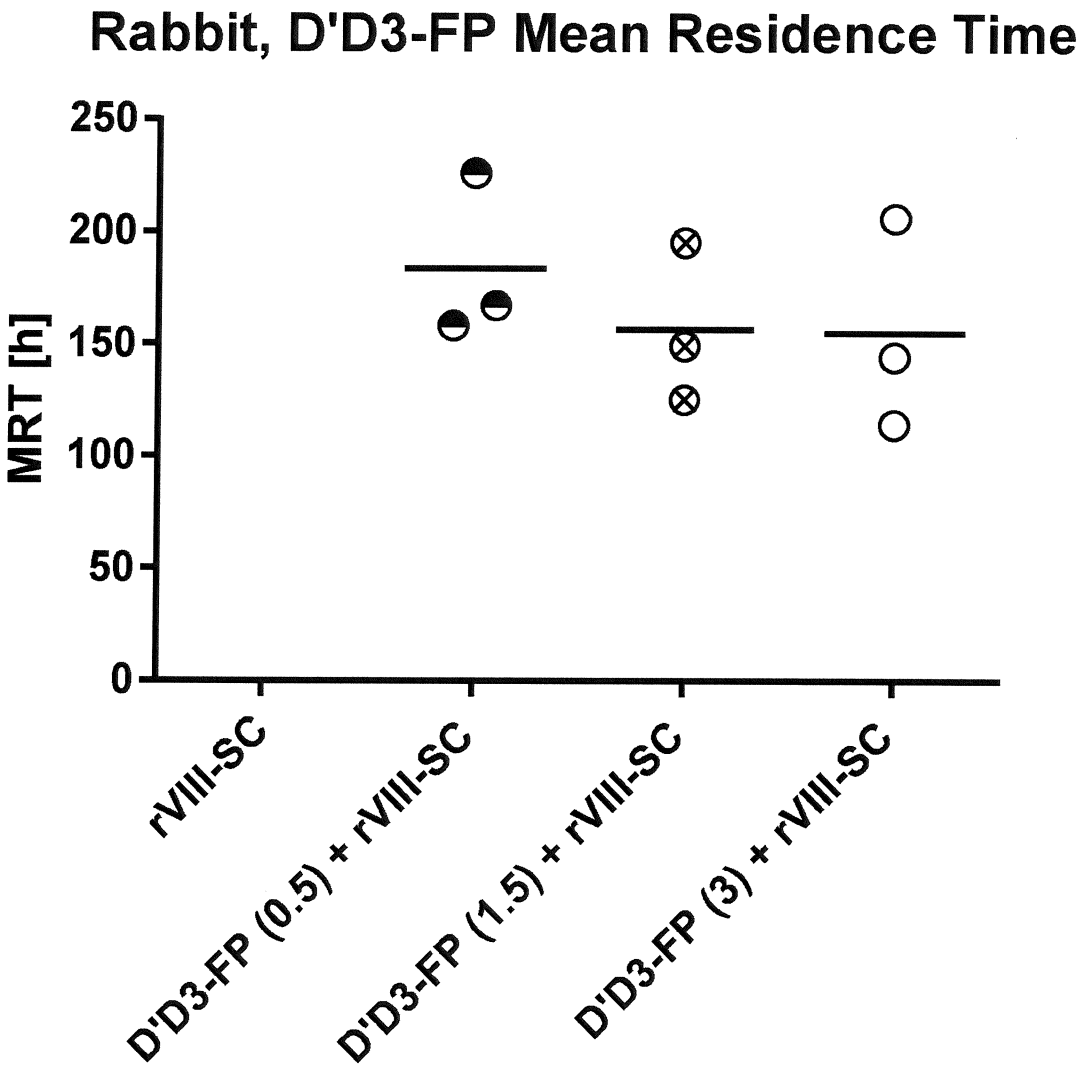

Rabbit, D'D3-FP Mean Residence Time
MRT [h]
250
200
150
100
50
0
rVIII-SC
D'D3-FP (0.5) + rVIII-SC
D'D3-FP (1.5) + rVIII-SC
D'D3-FP (3) + rVIII-SC

Figure 5B

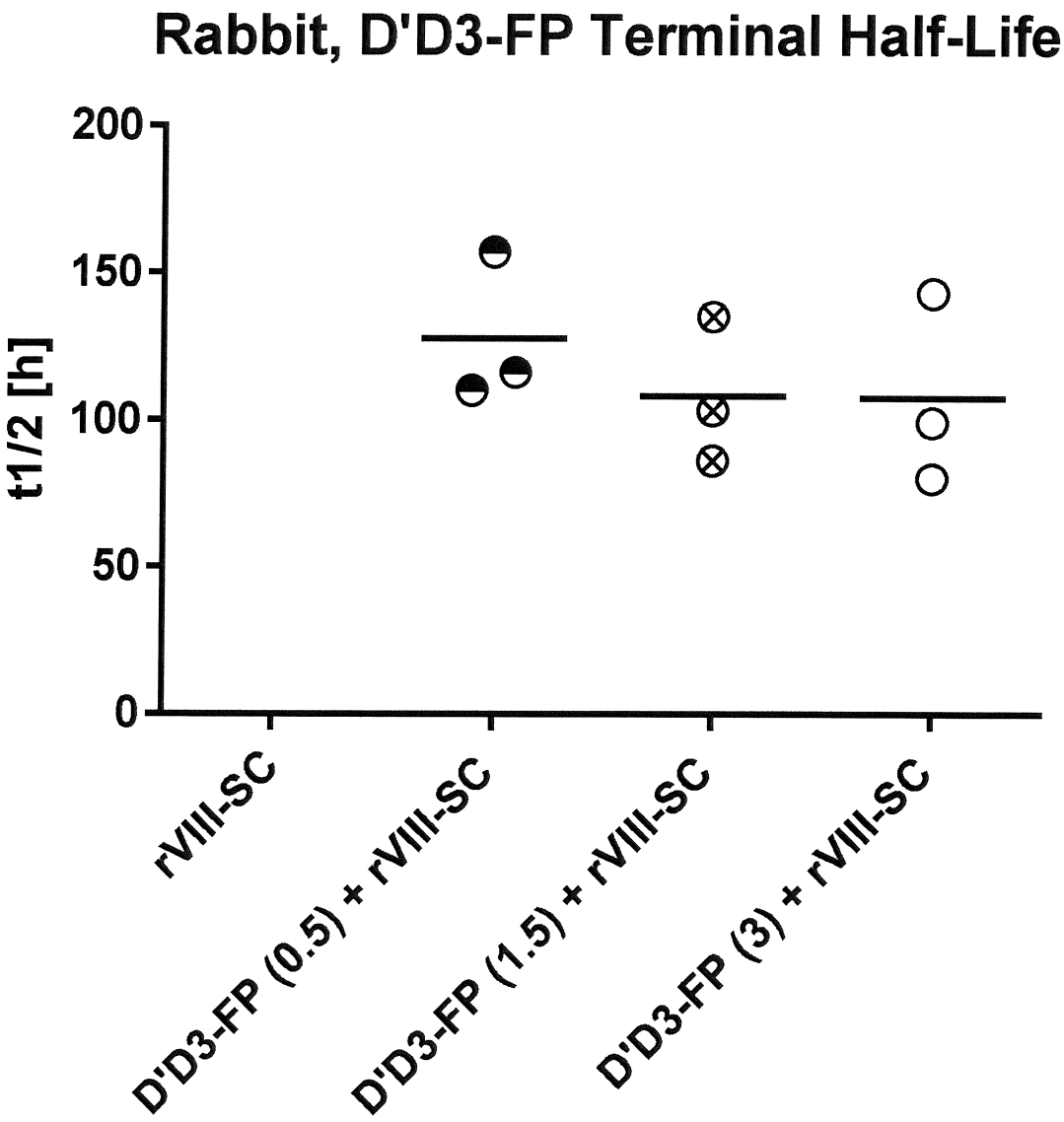

Rabbit, D'D3-FP Terminal Half-Life
t1/2 [h]
200
150
100
50
0
rVIII-SC
D'D3-FP (0.5) + rVIII-SC
D'D3-FP (1.5) + rVIII-SC
D'D3-FP (3) + rVIII-SC

Figure 5C

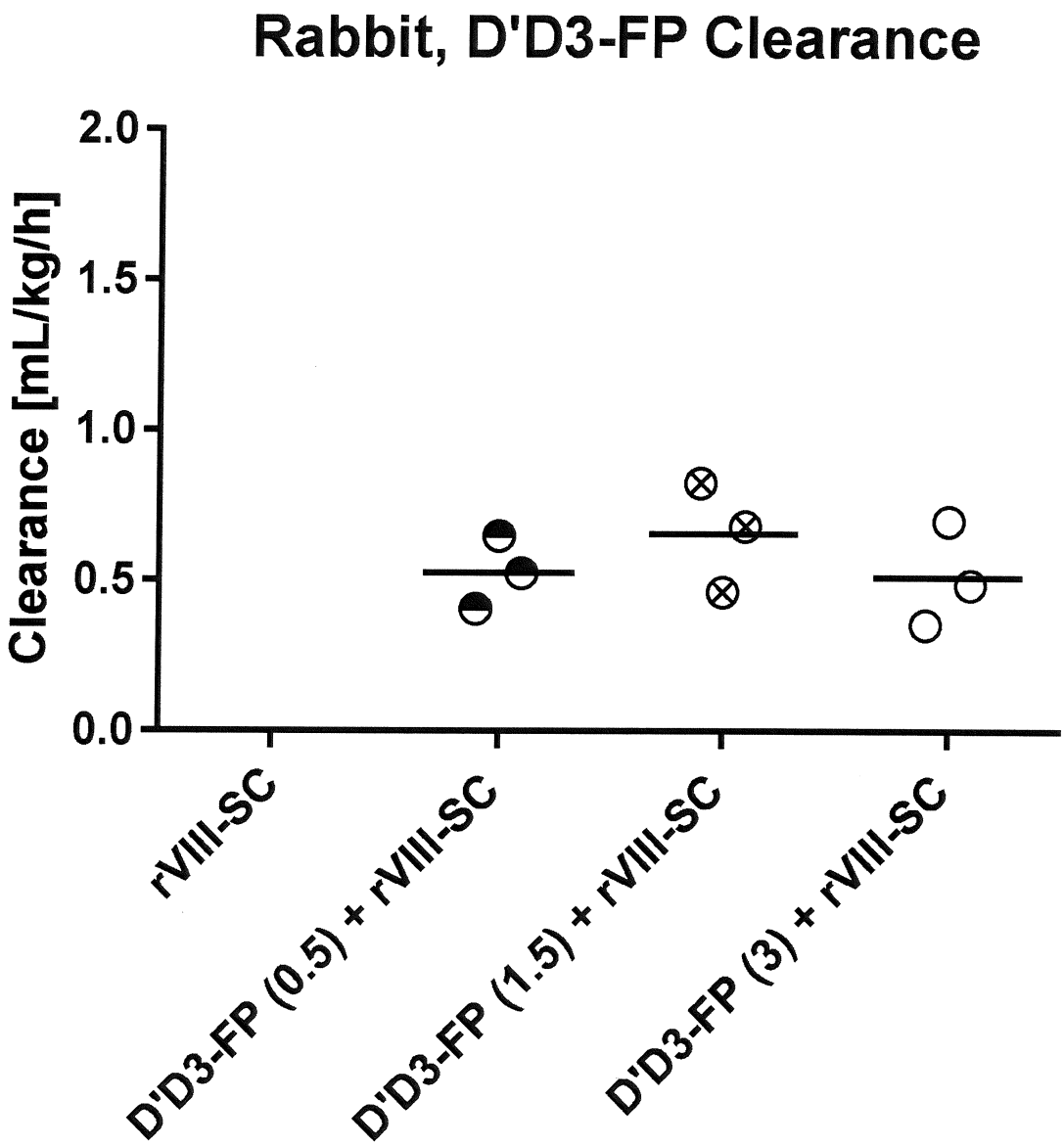

Rabbit, D'D3-FP Clearance
Clearance [mL/kg/h]
2.0
1.5
1.0
0.5
0.0
rVIII-SC
D'D3-FP (0.5) + rVIII-SC
D'D3-FP (1.5) + rVIII-SC
D'D3-FP (3) + rVIII-SC

Figure 6A

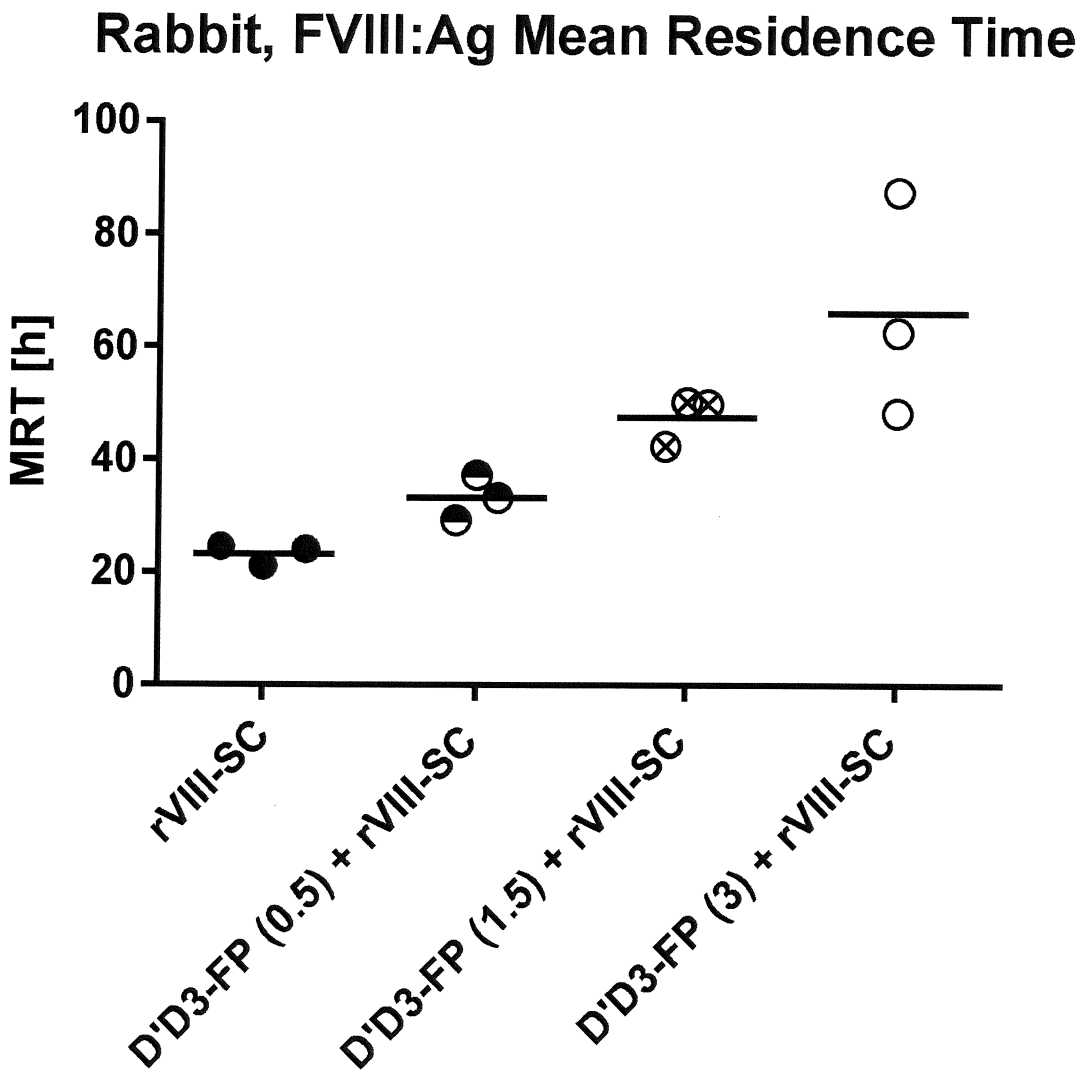

Rabbit, FVIII:Ag Mean Residence Time
MRT [h]
100
80
60
40
20
0
rVIII-SC
D'D3-FP (0.5) + rVIII-SC
D'D3-FP (1.5) + rVIII-SC
D'D3-FP (3) + rVIII-SC

Figure 6B

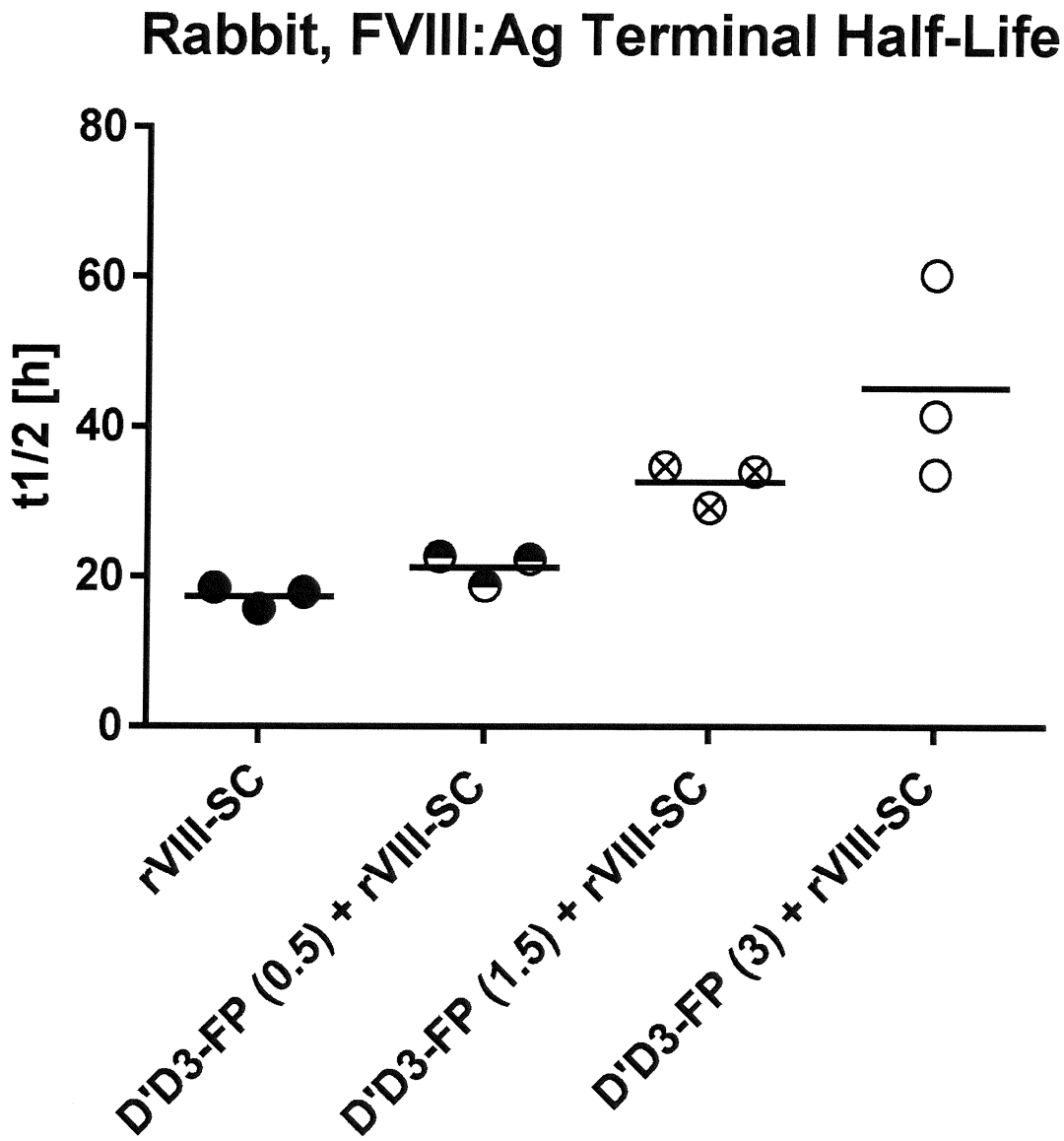

Rabbit, FVIII:Ag Terminal Half-Life
t1/2 [h]
80
60
40
20
0
rVIII-SC
D'D3-FP (0.5) + rVIII-SC
D'D3-FP (1.5) + rVIII-SC
D'D3-FP (3) + rVIII-SC

Figure 6C

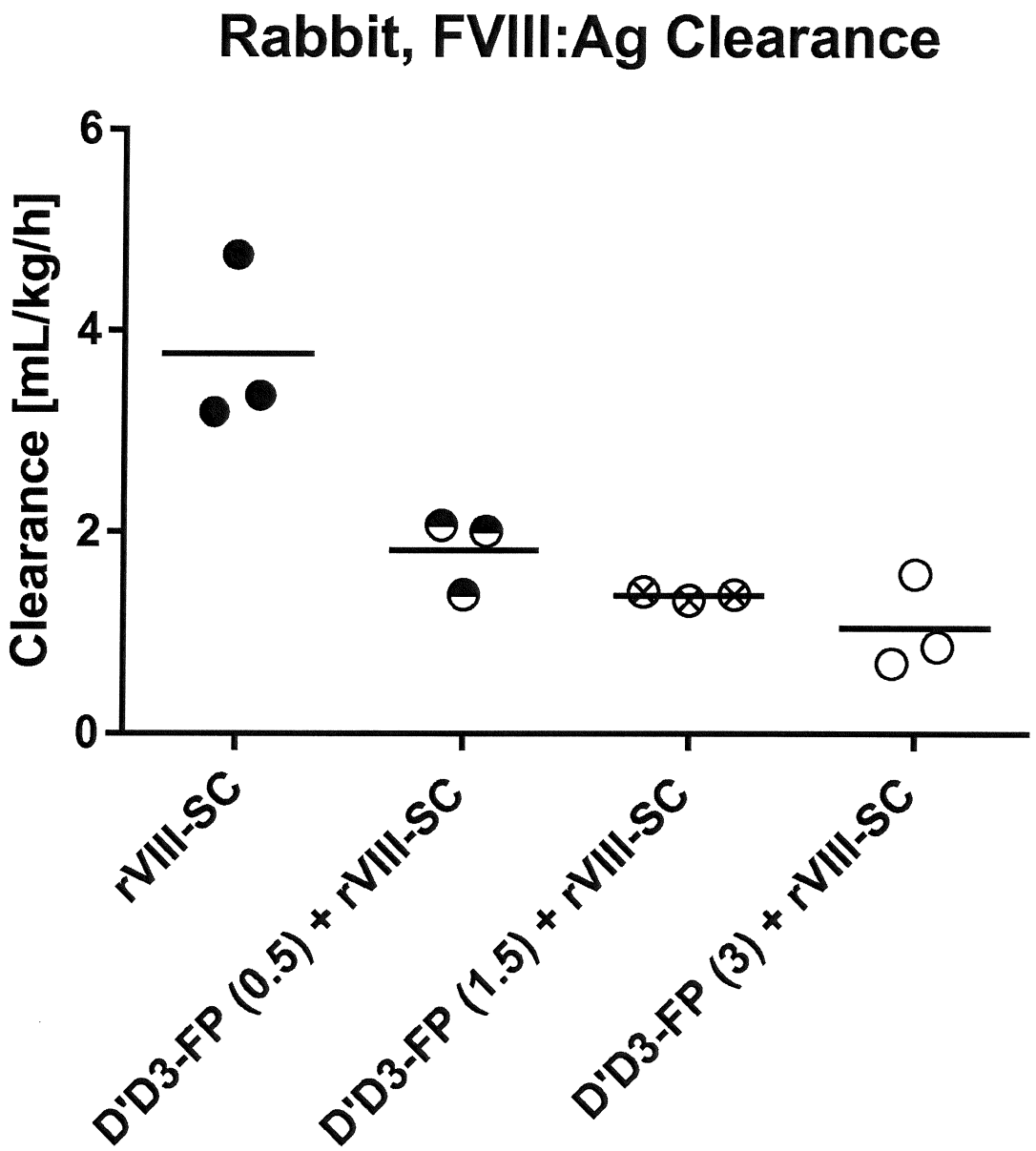

Rabbit, FVIII:Ag Clearance
Clearance [mL/kg/h]
6
4
2
0
rVIII-SC
D'D3-FP (0.5) + rVIII-SC
D'D3-FP (1.5) + rVIII-SC
D'D3-FP (3) + rVIII-SC

Figure 7A

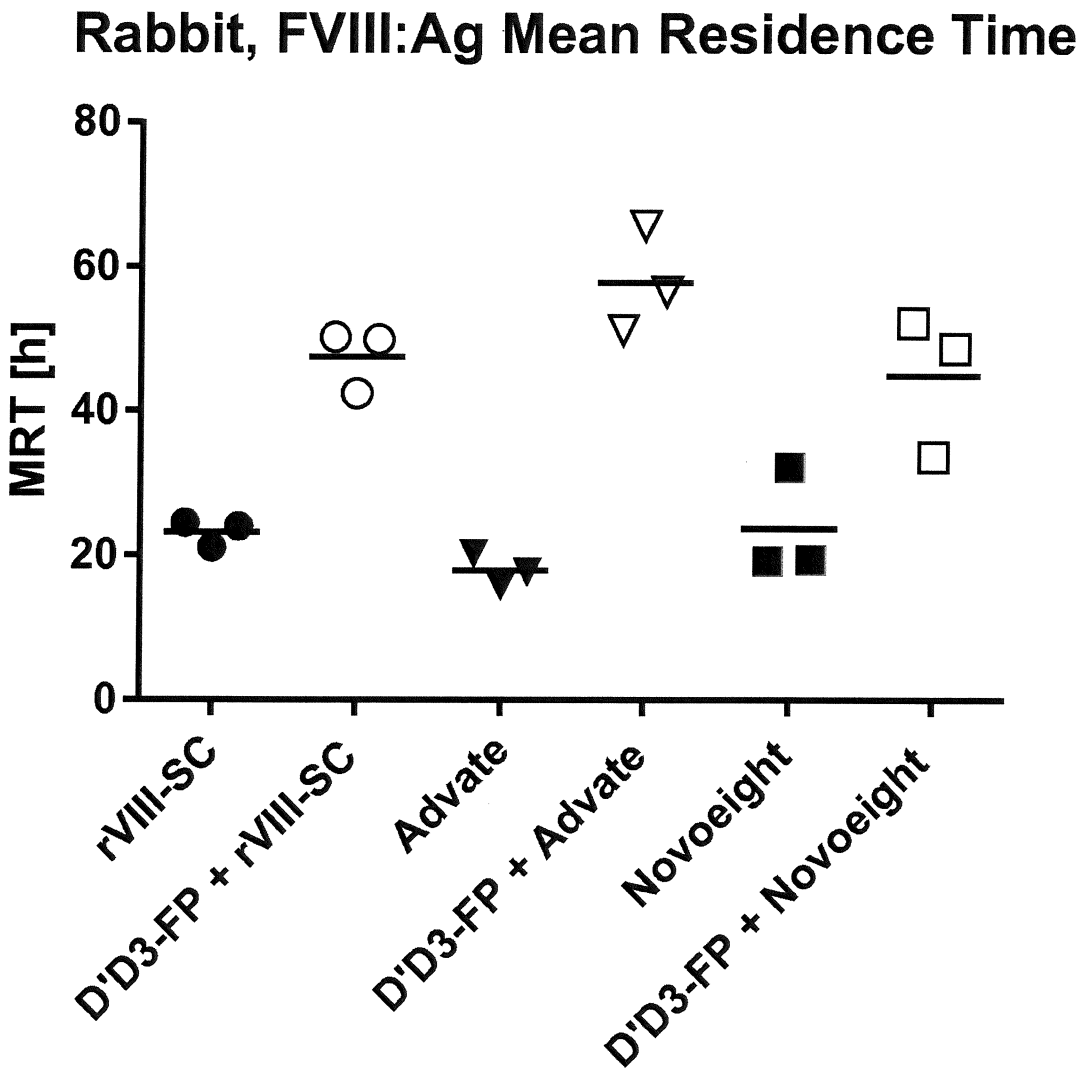

Rabbit, FVIII:Ag Mean Residence Time
MRT [h]
80
60
40
20
0
rVIII-SC
D'D3-FP + rVIII-SC
Advate
D'D3-FP + Advate
Novoeight
D'D3-FP + Novoeight

Figure 7B

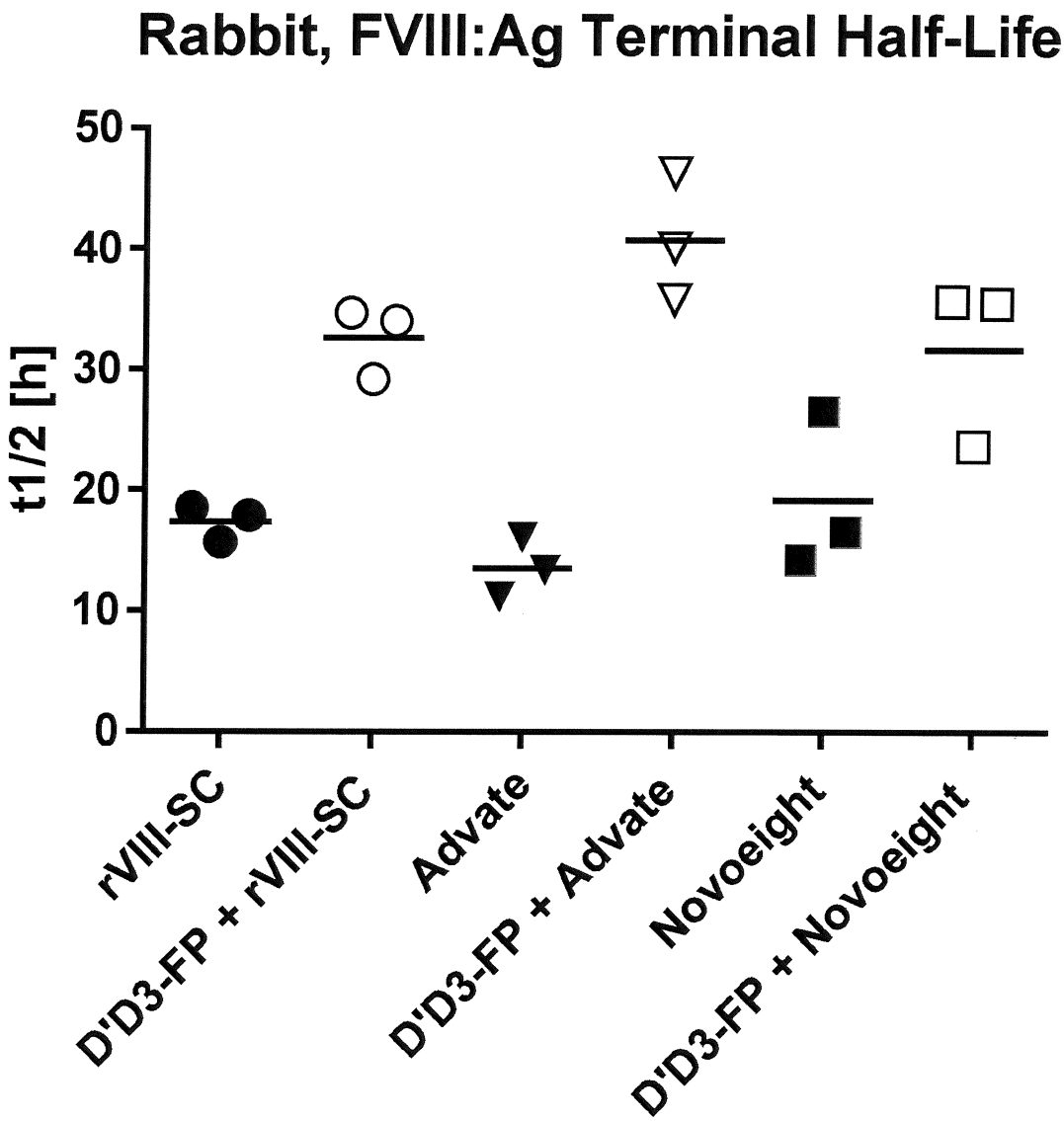

Rabbit, FVIII:Ag Terminal Half-Life
t1/2 [h]
50
40
30
20
10
0
rVIII-SC
D'D3-FP + rVIII-SC
Advate
D'D3-FP + Advate
Novoeight
D'D3-FP + Novoeight

Figure 7C

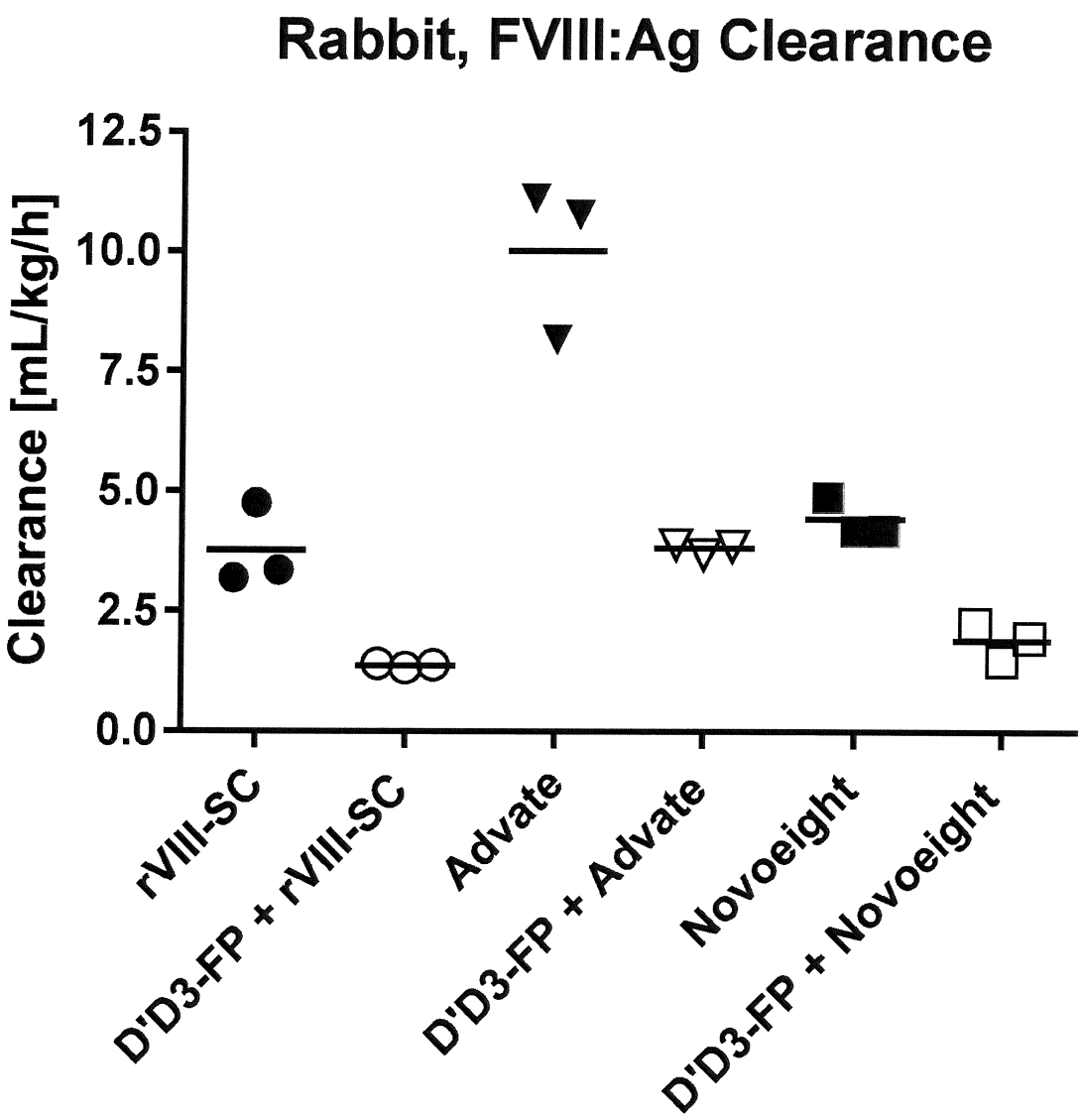

Rabbit, FVIII:Ag Clearance
Clearance [mL/kg/h]
12.5
10.0
7.5
5.0
2.5
0.0
rVIII-SC
D'D3-FP + rVIII-SC
Advate
D'D3-FP + Advate
Novoeight
D'D3-FP + Novoeight

Figure 8A

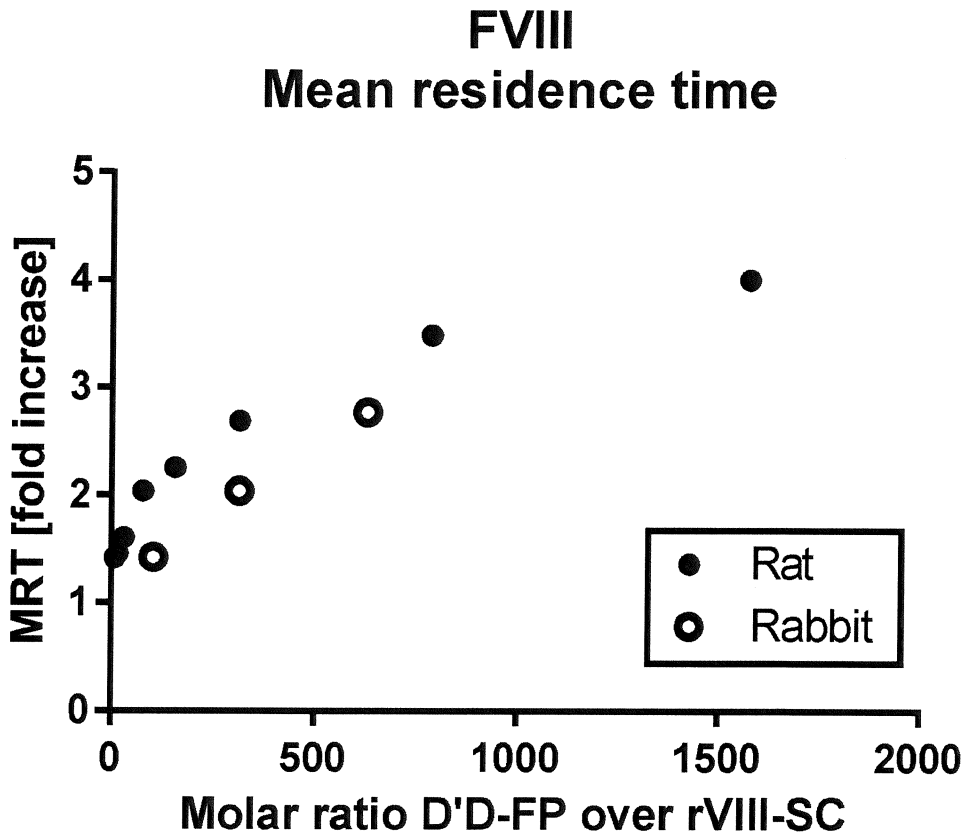

FVIII
Mean residence time
MRT [fold increase]
0
1
2
3
4
5
0
500
1000
1500
2000
Molar ratio D'D-FP over rVIII-SC
Rat
Rabbit

Figure 8B

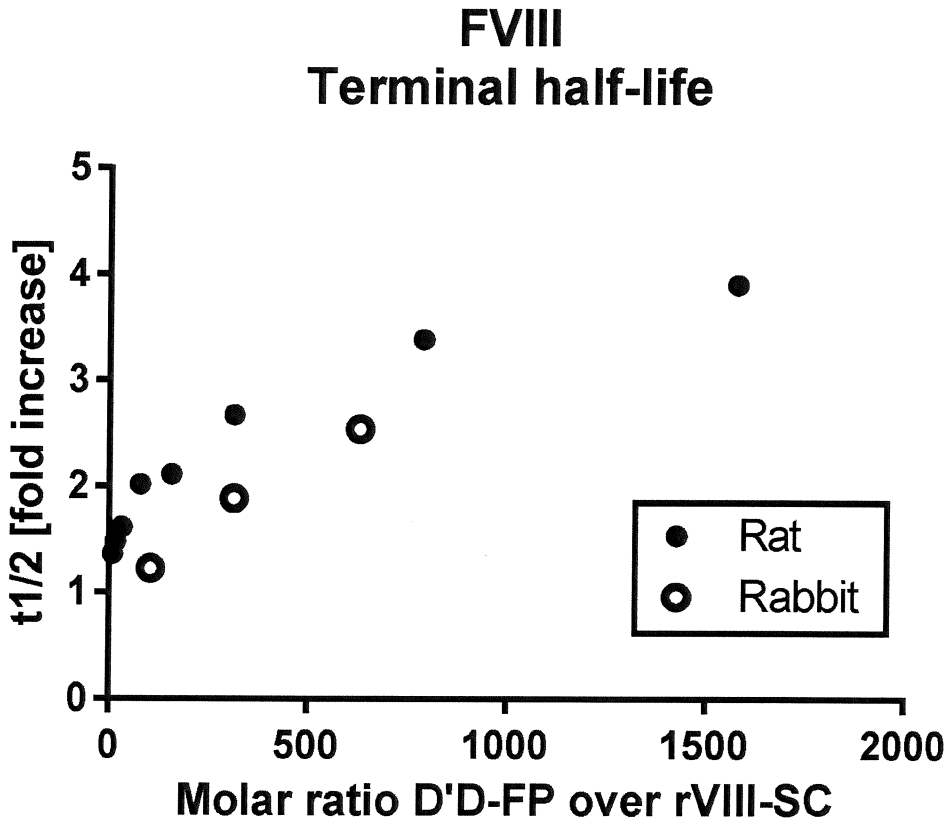

FVIII
Terminal half-life
t1/2 [fold increase]
0
1
2
3
4
5
0
500
1000
1500
2000
Molar ratio D'D-FP over rVIII-SC
Rat
Rabbit

Figure 8C

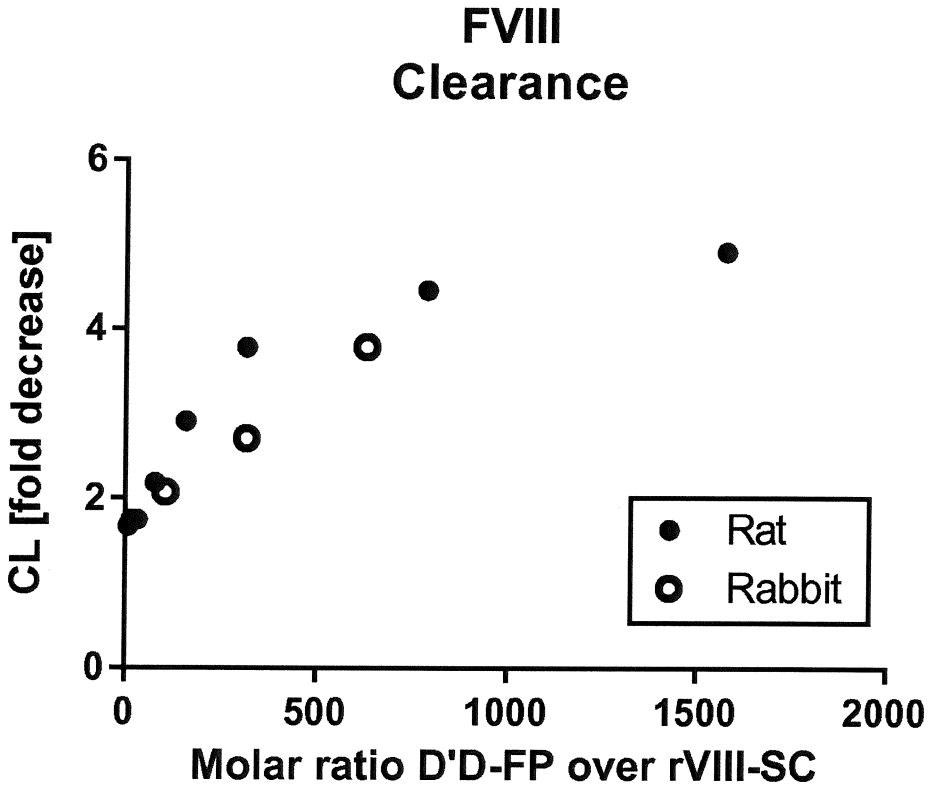

FVIII
Clearance
CL [fold decrease]
6
4
2
0
0
500
1000
1500
2000
Molar ratio D'D-FP over rVIII-SC
Rat
Rabbit

Figure 9A

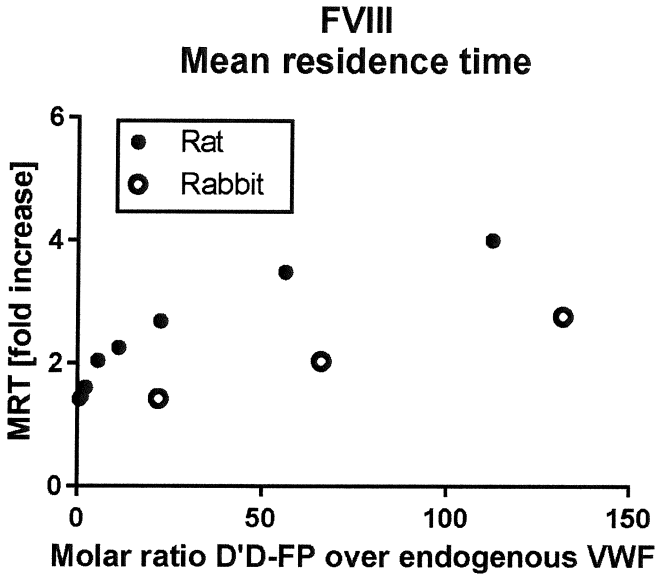

FVIII
Mean residence time
Rat
Rabbit
MRT [fold increase]
0
2
4
6
0
50
100
150
Molar ratio D'D-FP over endogenous VWF

Figure 9B

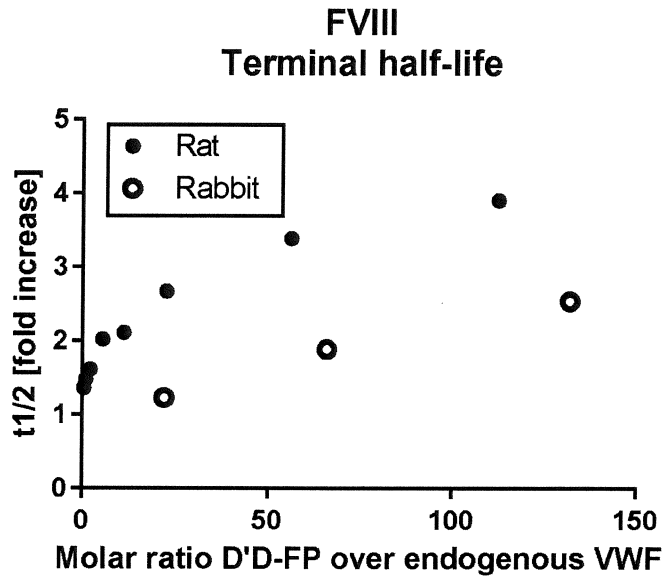


Figure 9C

