Figure 1

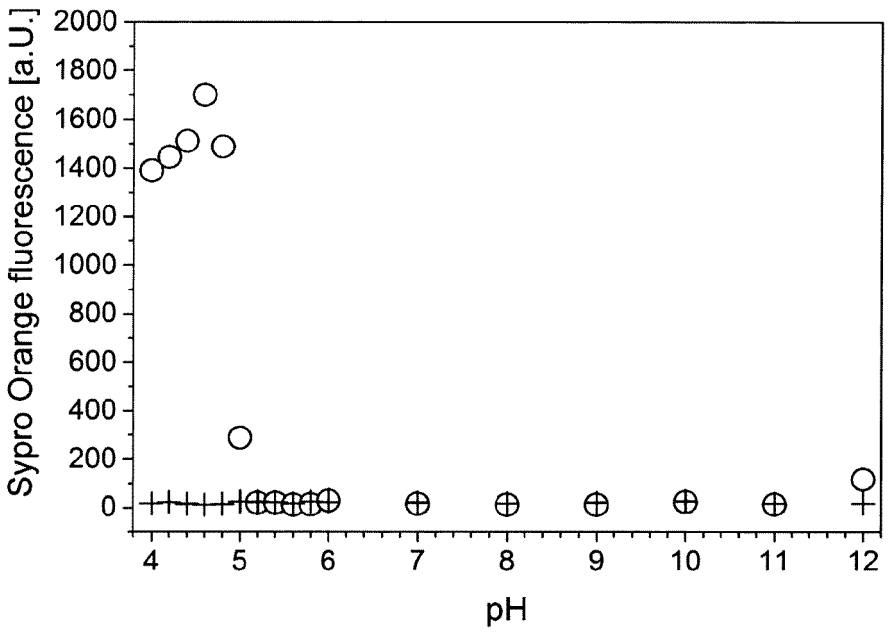
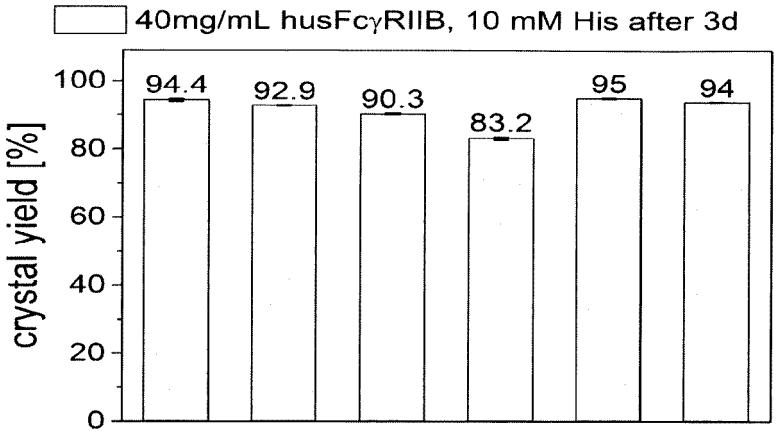

Sypro Orange fluorescence [a.U.]
2000
1800
1600
1400
1200
1000
800
600
400
200
0
4
5
6
7
8
9
10
11
12
pH

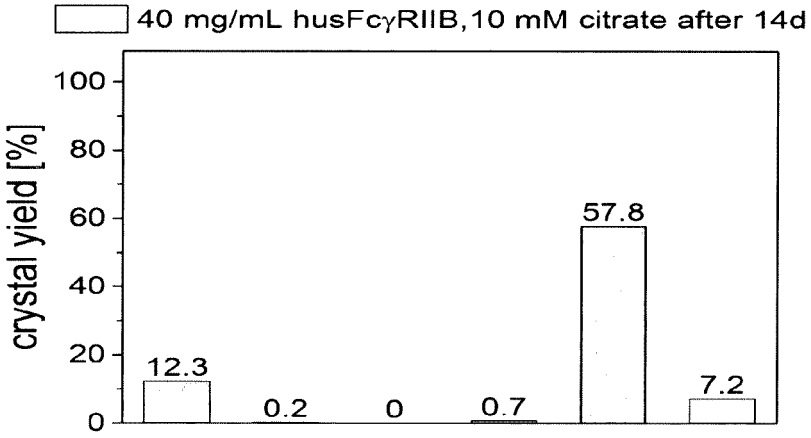
Figure 2

(a)



husFcγRIIB	**[mg/mL]**	40	40	40	40	40	40
Sugar	**[%]**	0	5	10	20	0	5
NaCl	**[mM]**	0	10	10	10	5	5

(b)



husFcγRIIB	**[mg/mL]**	40	40	40	40	40	40
Sugar	**[%]**	0	5	10	20	0	5
NaCl	**[mM]**	10	10	10	10	5	5

Figure 3

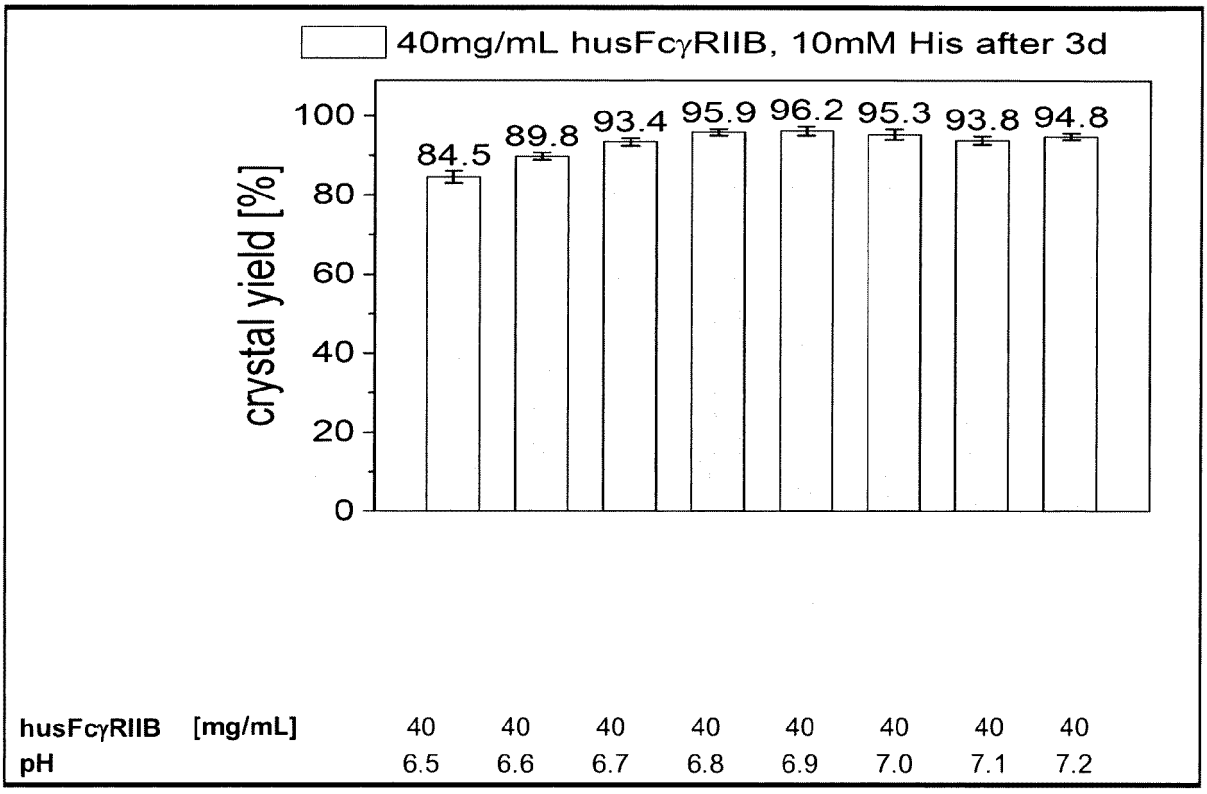

40mg/mL husFcγRIIB, 10mM His after 3d
crystal yield [%]
0
20
40
60
80
100
84.5
89.8
93.4
95.9
96.2
95.3
93.8
94.8
husFcγRIIB [mg/mL] 40 40 40 40 40 40 40 40
pH 6.5 6.6 6.7 6.8 6.9 7.0 7.1 7.2

Figure 4

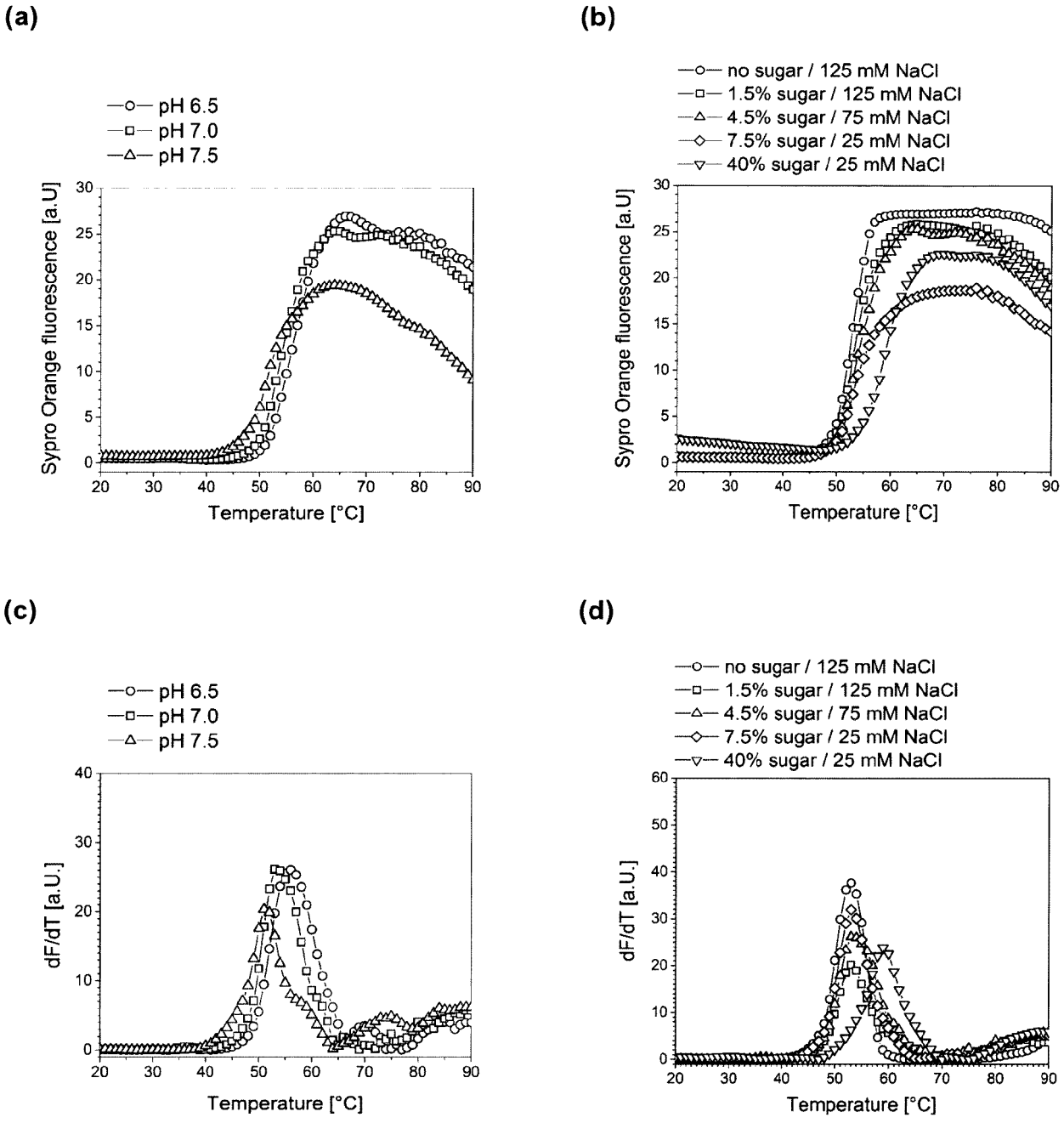
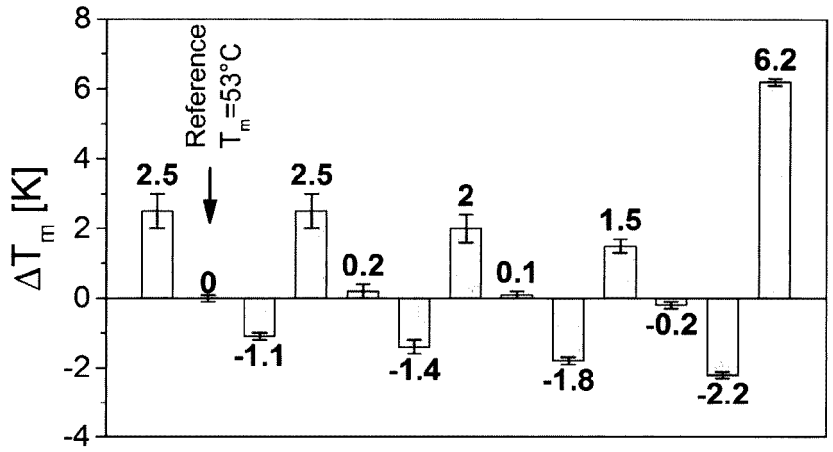
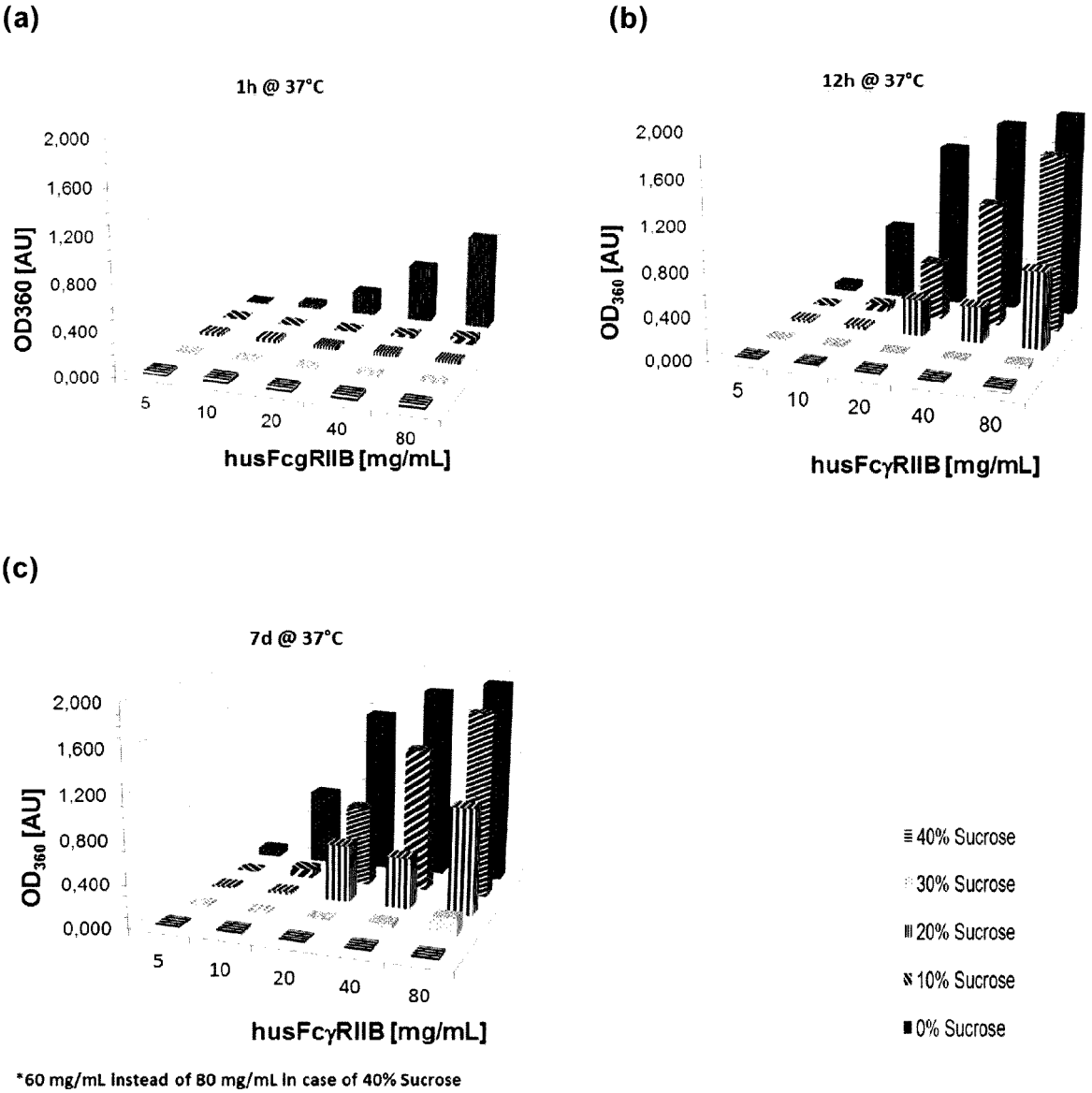

(a)
pH 6.5
pH 7.0
pH 7.5
Sypro Orange fluorescence [a.U]
Temperature [°C]
(b)
no sugar / 125 mM NaCl
1.5% sugar / 125 mM NaCl
4.5% sugar / 75 mM NaCl
7.5% sugar / 25 mM NaCl
40% sugar / 25 mM NaCl
Sypro Orange fluorescence [a.U]
Temperature [°C]
(c)
pH 6.5
pH 7.0
pH 7.5
dF/dT [a.U.]
Temperature [°C]
(d)
no sugar / 125 mM NaCl
1.5% sugar / 125 mM NaCl
4.5% sugar / 75 mM NaCl
7.5% sugar / 25 mM NaCl
40% sugar / 25 mM NaCl
dF/dT [a.U.]
Temperature [°C]

Figure 5



pH	**6.5**	7.0	7.5	**6.5**	7.0	7.5	**6.5**	7.0	7.5	**6.5**	7.0	7.5	7.0
Sugar [%]		7.5			4.5			1.5			0		40
NaCl [mM]		25			75			125			125		25

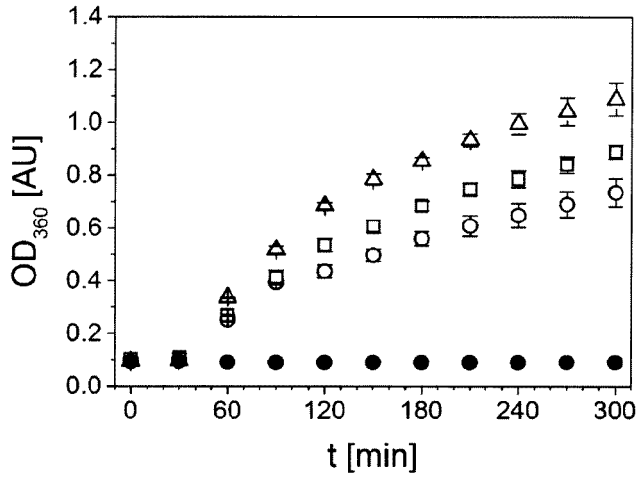
Figure 6



*60 mg/mL instead of 80 mg/mL in case of 40% Sucrose

Figure 7

(a)


1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
OD360 [AU]
0
60
120
180
240
300
t [min]

(b)

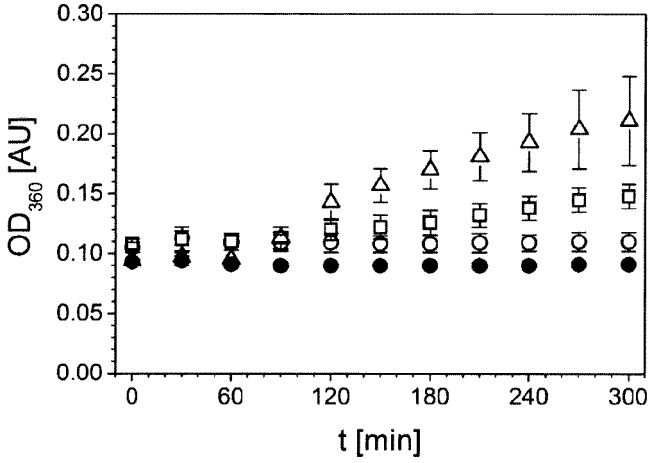

0.30
0.25
0.20
0.15
0.10
0.05
0.00
OD360 [AU]
0
60
120
180
240
300
t [min]

Figure 8

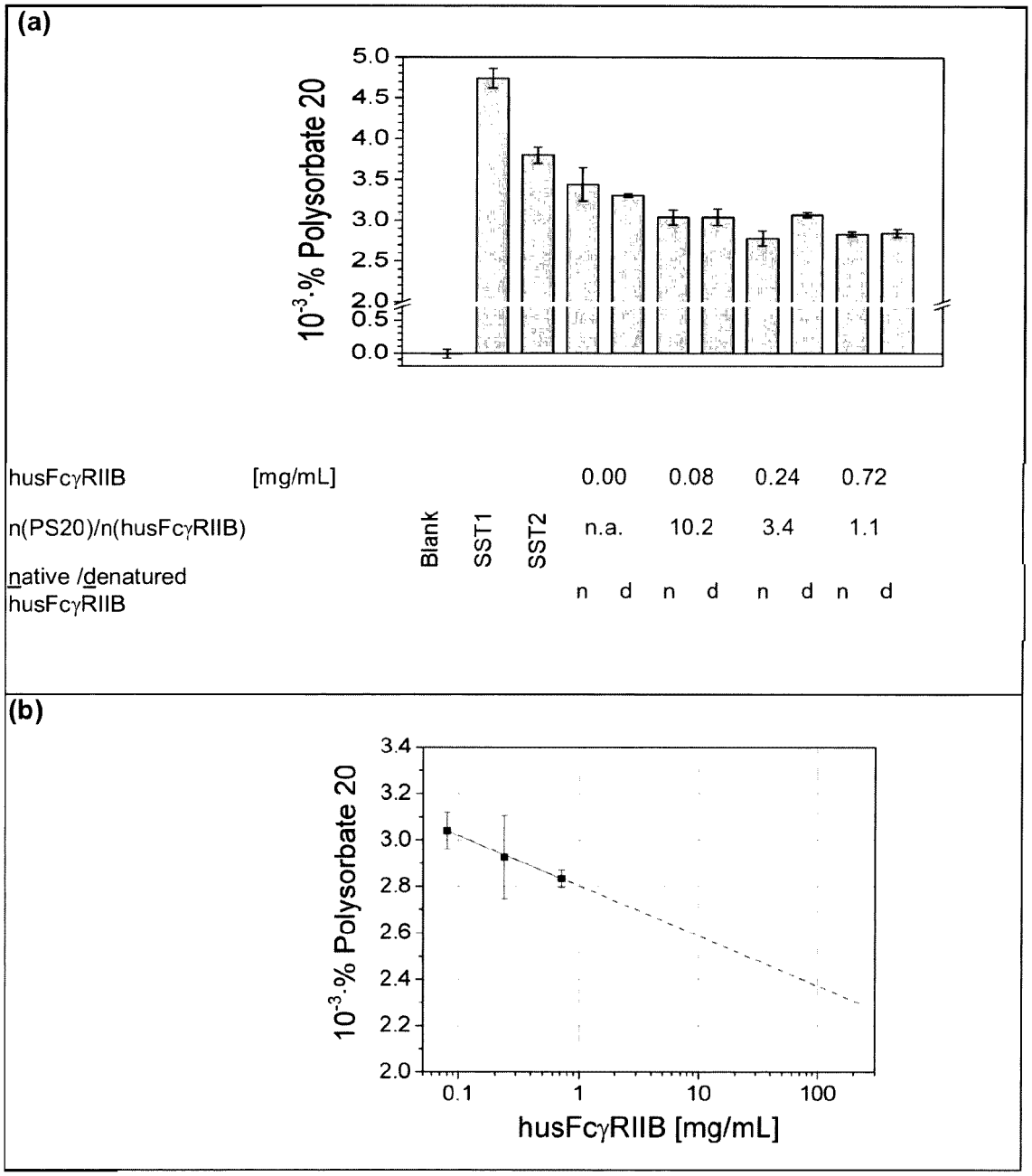

(a)
10-3.% Polysorbate 20
5.0
4.5
4.0
3.5
3.0
2.5
2.0
0.5
0.0
husFcγRIIB [mg/mL]
0.00 0.08 0.24 0.72
n(PS20)/n(husFcγRIIB)
Blank SST1 SST2 n.a. 10.2 3.4 1.1
native /denatured husFcγRIIB
n d n d n d n d
(b)
10-3.% Polysorbate 20
3.4
3.2
3.0
2.8
2.6
2.4
2.2
2.0
0.1 1 10 100
husFcγRIIB [mg/mL]

Figure 9

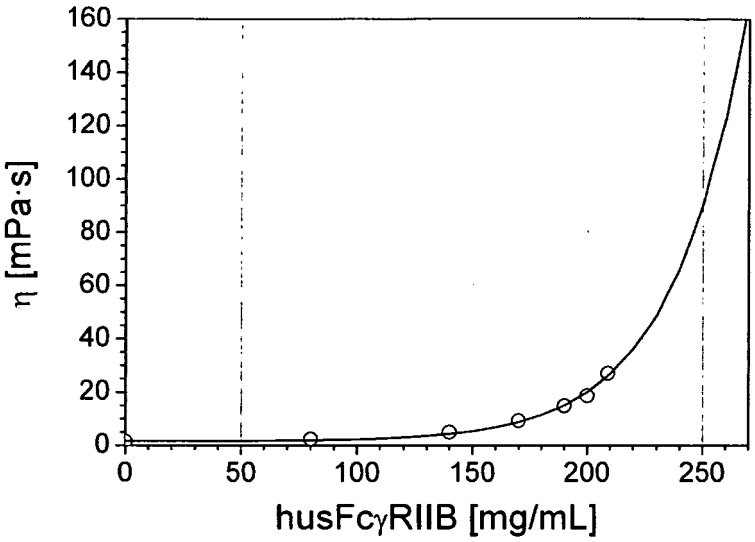
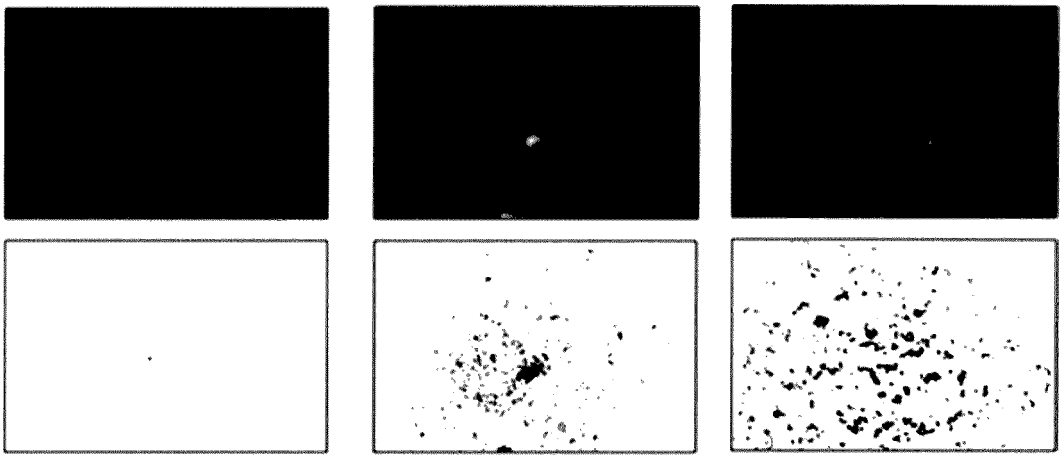

160
140
120
100
80
60
40
20
0
η [mPa·s]
0
50
100
150
200
250
husFcγRIIB [mg/mL]

Figure 10



45⇒ 180 mg/mL
2% Sucrose
25 mM NaCl
0.005% PS20

120⇒ 120 mg/mL
8% Trehalose
25 mM NaCl
0.005% PS20

60⇒ 60 mg/mL
2% Sucrose
1% Mannitol
25 mM NaCl
0.005% PS20