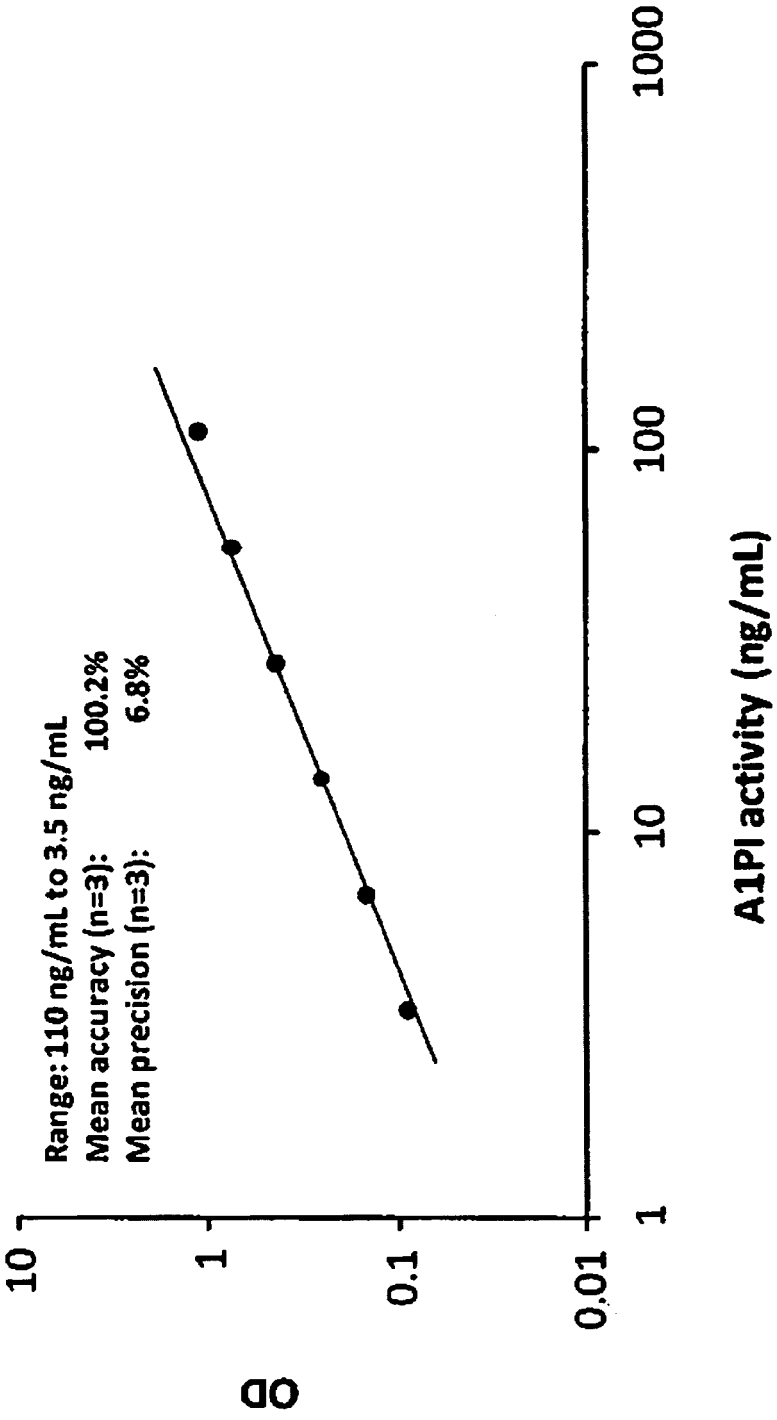

Range: 110 ng/mL to 3.5 ng/mL
Mean accuracy (n=3): 100.2%
Mean precision (n=3): 6.8%
OD
10
1
0.1
0.01
1
10
100
1000
A1PI activity (ng/mL)

Figure 1

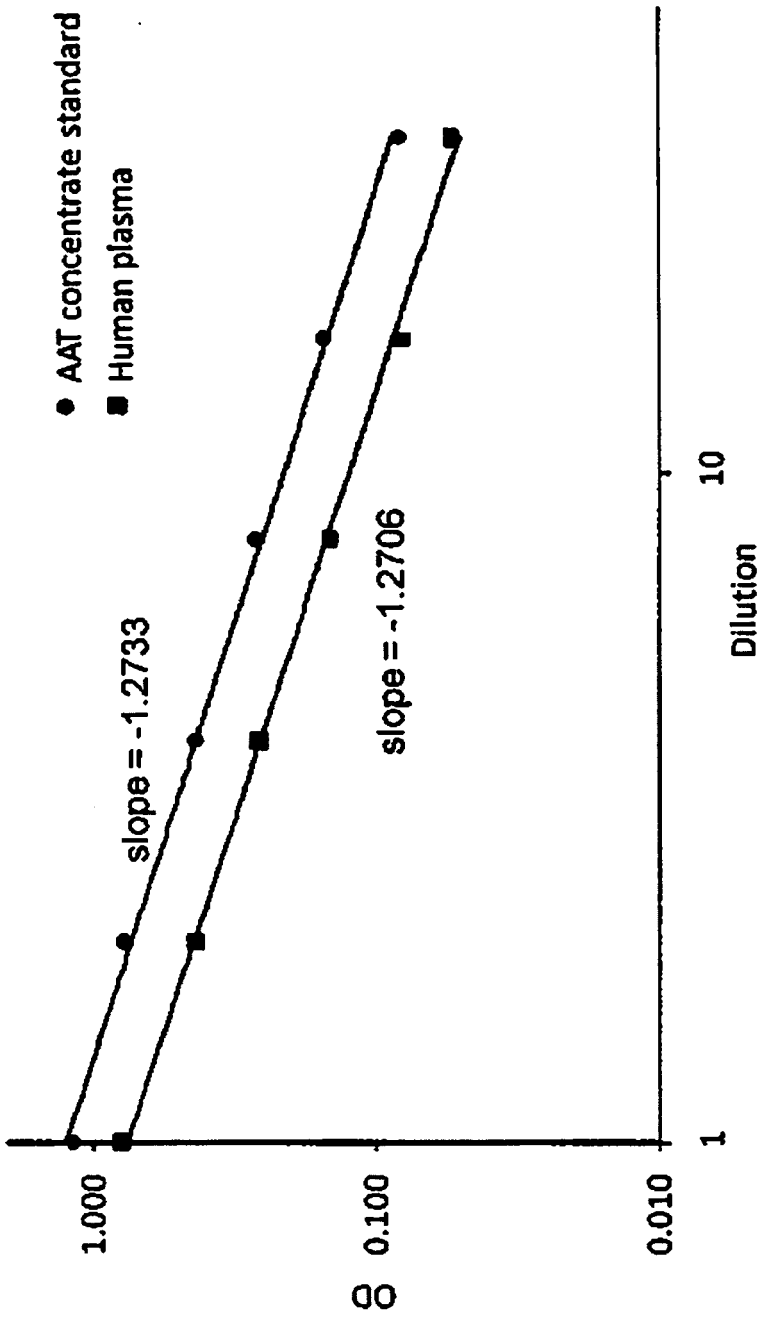

AAT concentrate standard
Human plasma
slope = -1.2733
slope = -1.2706
1.000
0.100
0.010
OD
1
10
Dilution

Figure 2

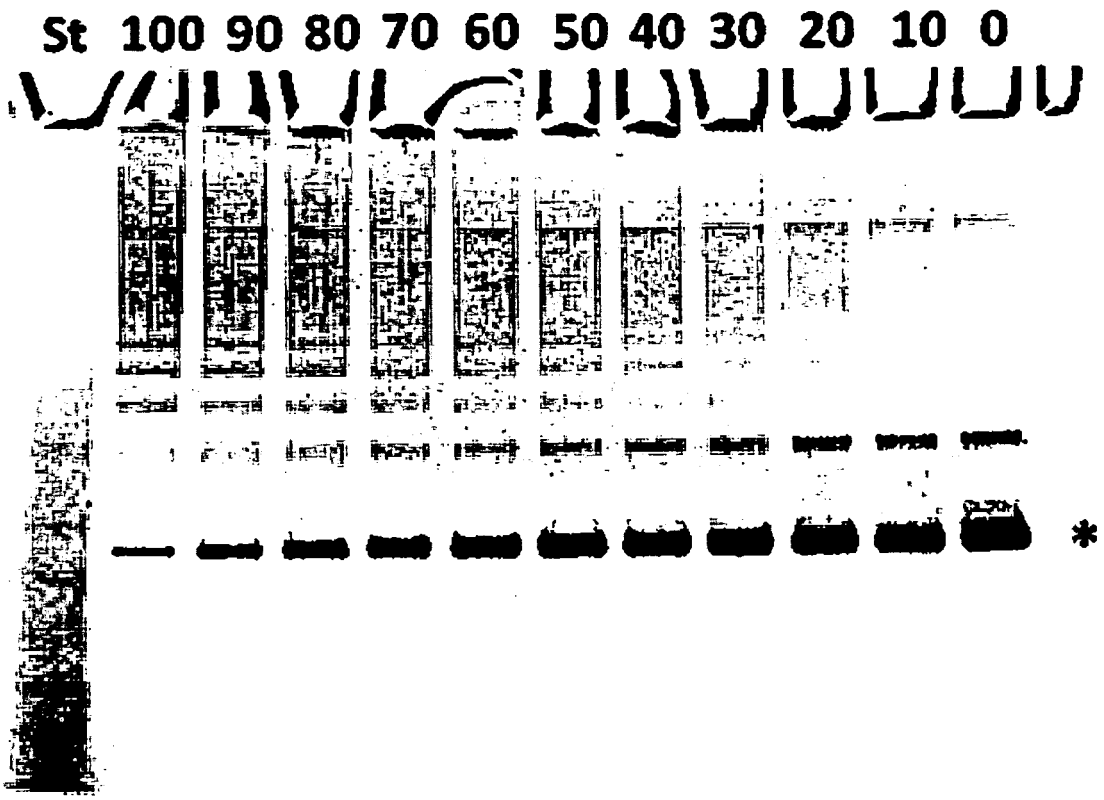


Figure 3

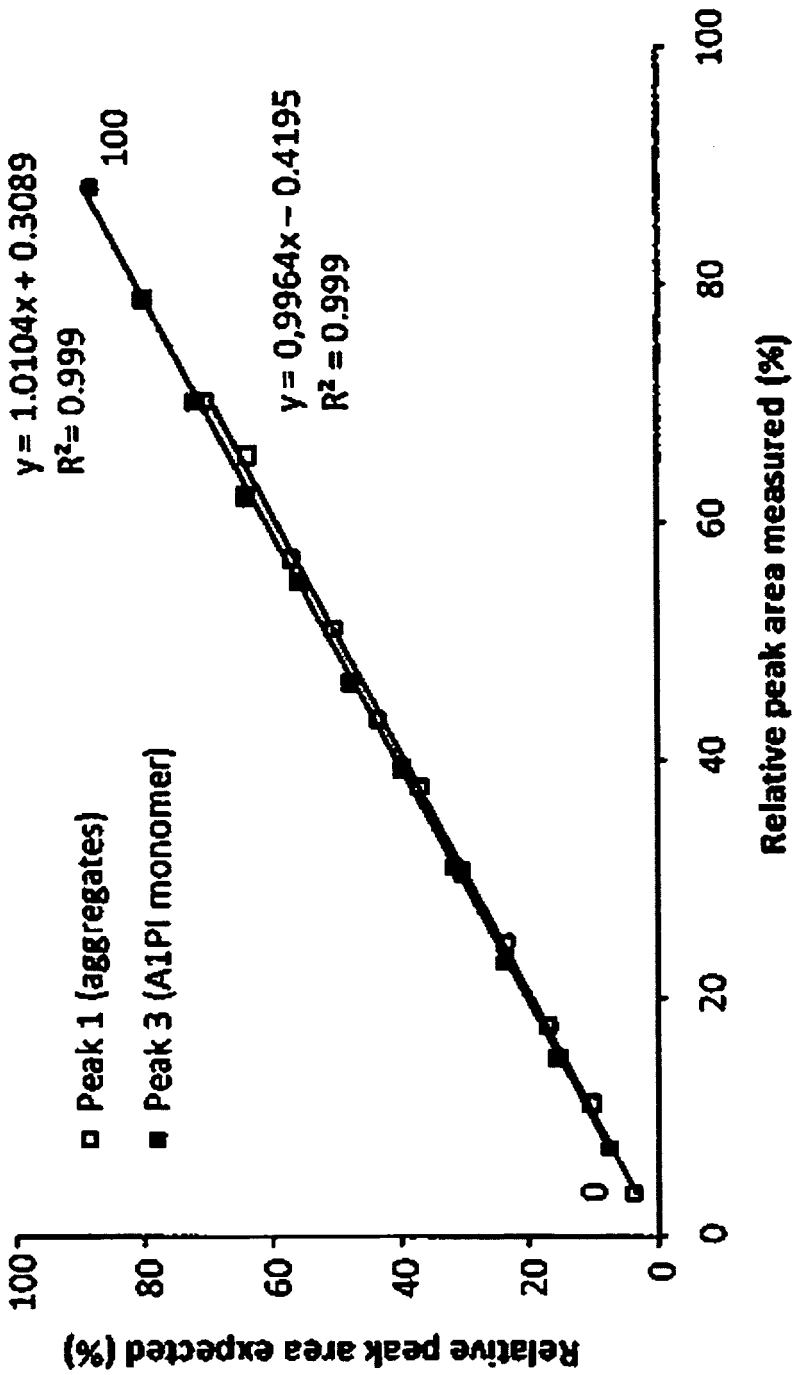

y = 1.0104x + 0.3089
R²= 0.999
y = 0,9964x – 0.4195
R² = 0.999
Peak 1 (aggregates)
Peak 3 (A1PI monomer)
Relative peak area expected (%)
Relative peak area measured (%)
0
20
40
60
80
100
100

Figure 4

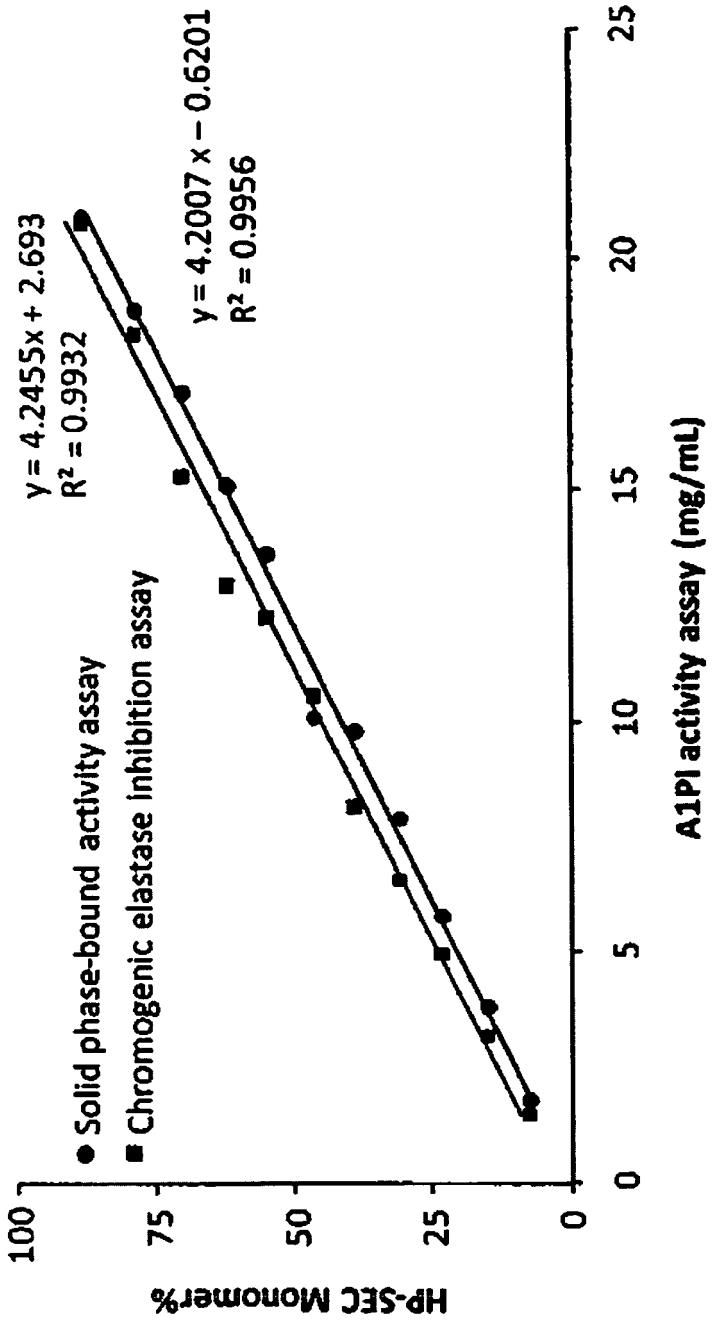

y = 4.2455x + 2.693
R² = 0.9932
y = 4.2007 x – 0.6201
R² = 0.9956
● Solid phase-bound activity assay
■ Chromogenic elastase inhibition assay
HP-SEC Monomer%
100
75
50
25
0
0
5
10
15
20
25
A1PI activity assay (mg/mL)

Figure 5

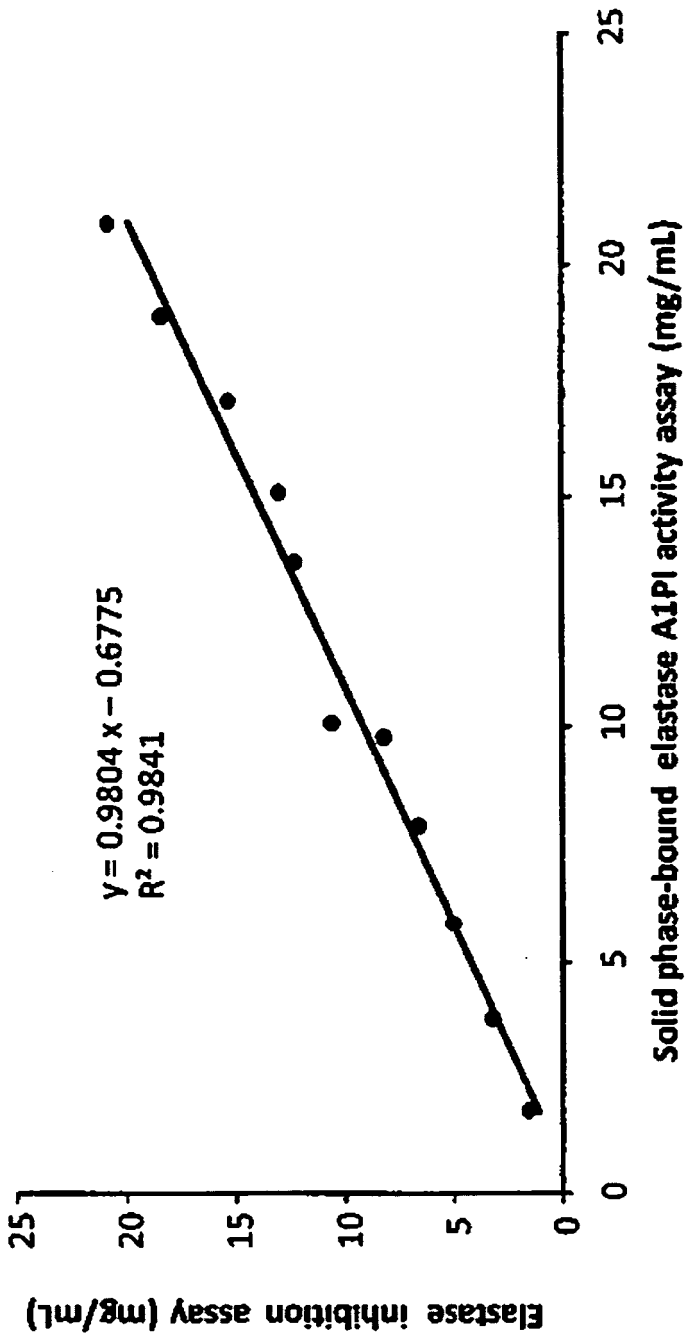

y = 0.9804 x – 0.6775
R² = 0.9841
Solid phase-bound elastase A1PI activity assay (mg/mL)
Elastase inhibition assay (mg/mL)
0
5
10
15
20
25

Figure 6

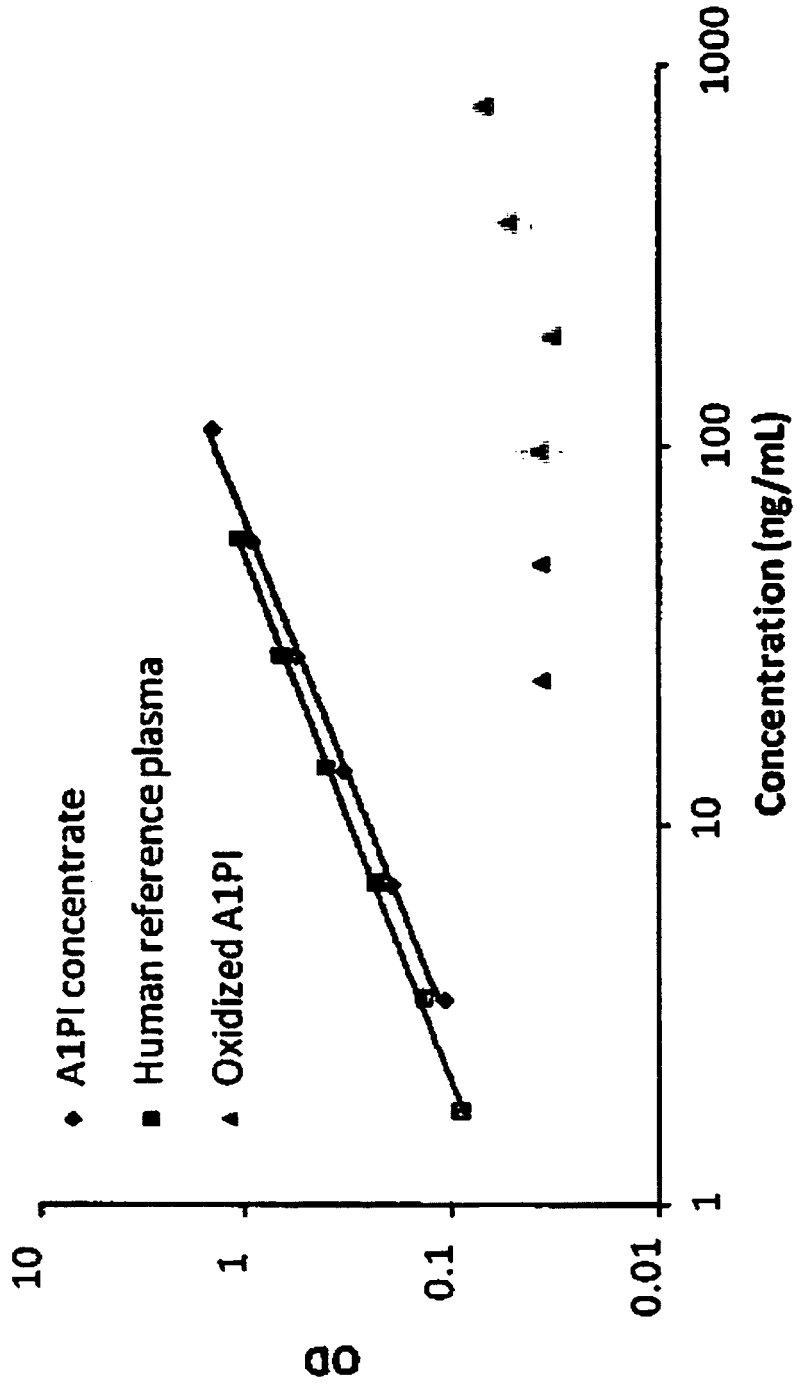

A1PI concentrate
Human reference plasma
Oxidized A1PI
OD
10
1
0.1
0.01
1
10
100
1000
Concentration (ng/mL)

Figure 7

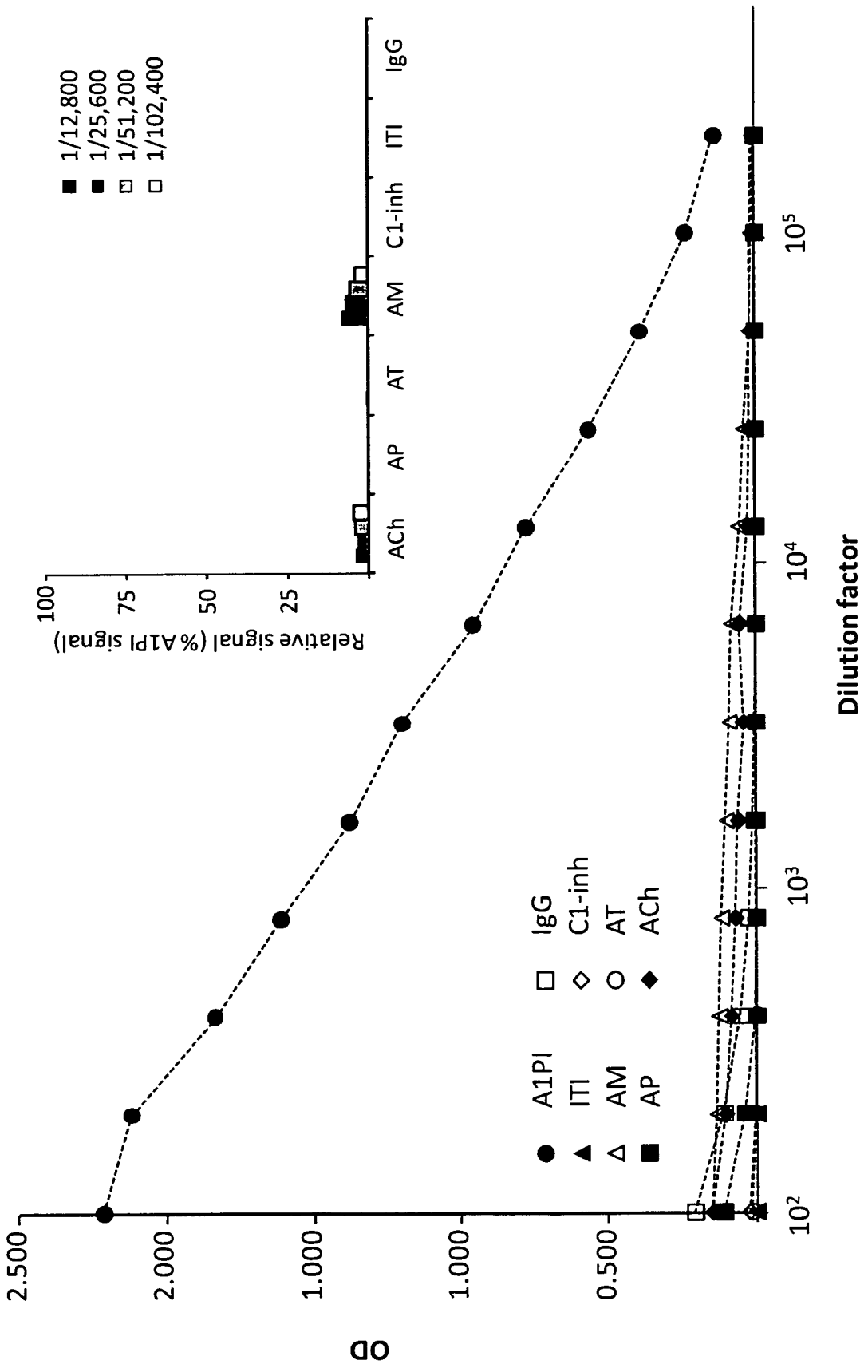

OD
2.500
2.000
1.000
1.000
0.500
Dilution factor
10^2
10^3
10^4
10^5
A1PI
ITI
AM
AP
IgG
C1-inh
AT
ACh
1/12,800
1/25,600
1/51,200
1/102,400
Relative signal (% A1PI signal)
100
75
50
25
ACh
AP
AT
AM
C1-inh
ITI
IgG

Figure 8