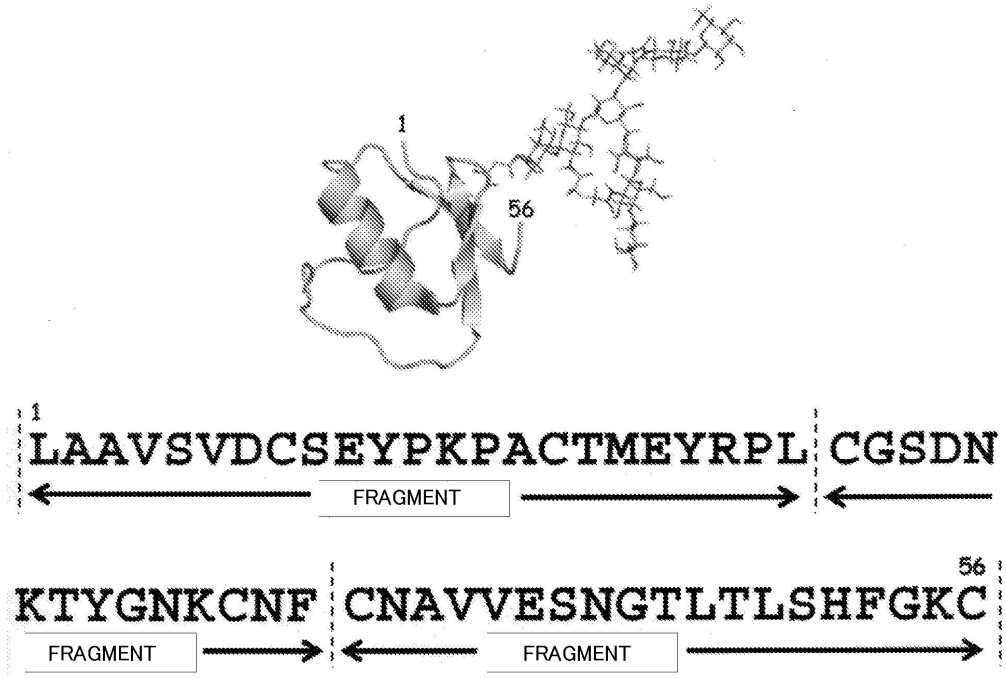
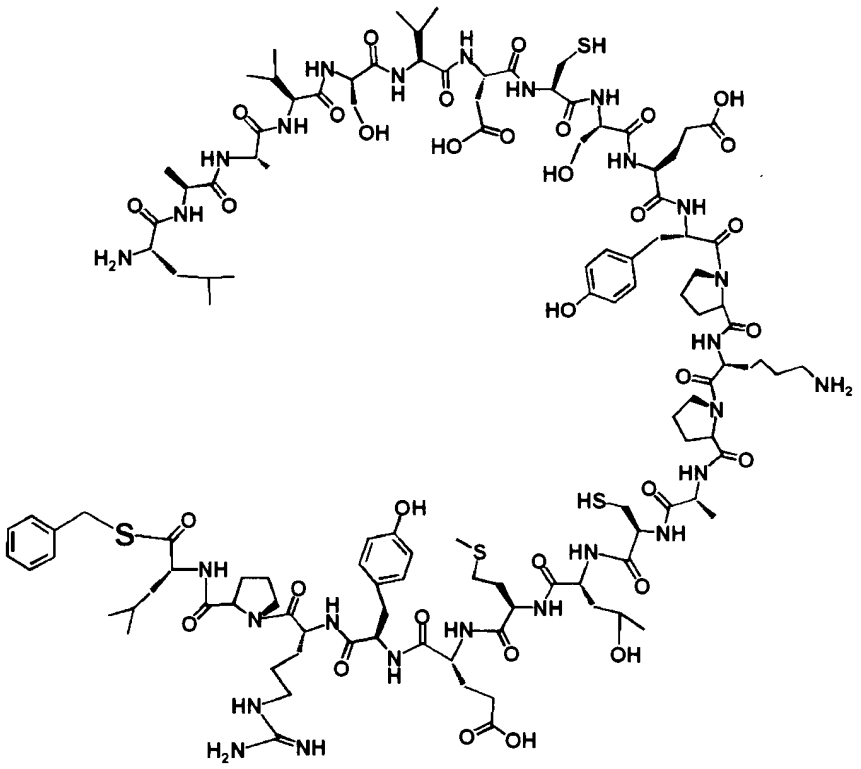
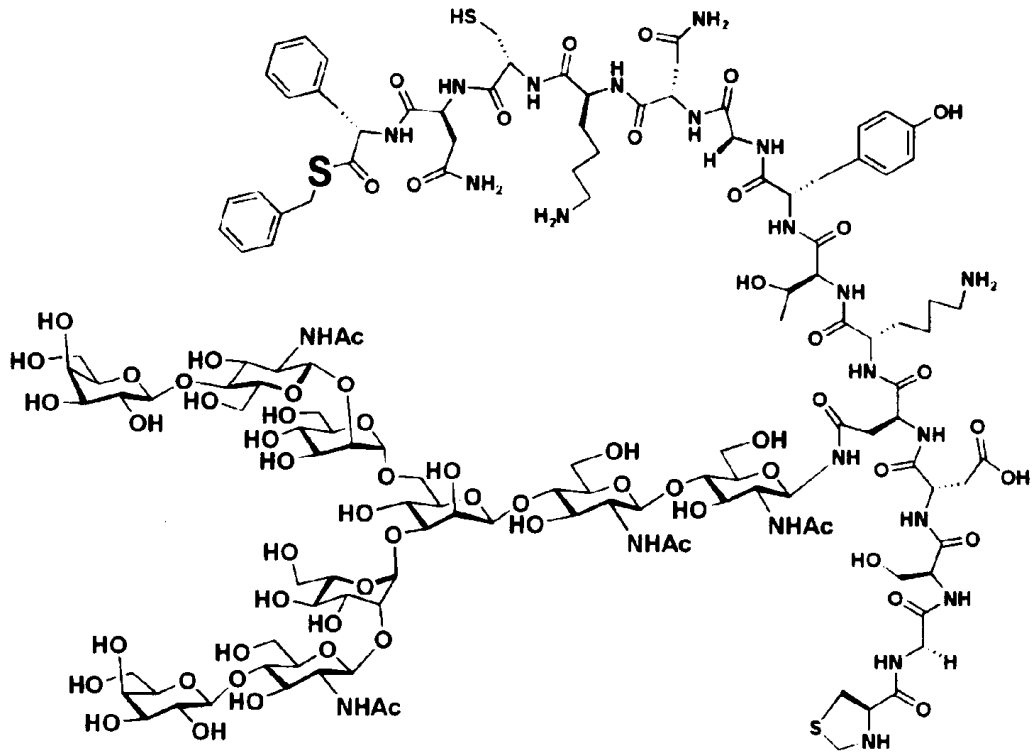
[Figure 1]



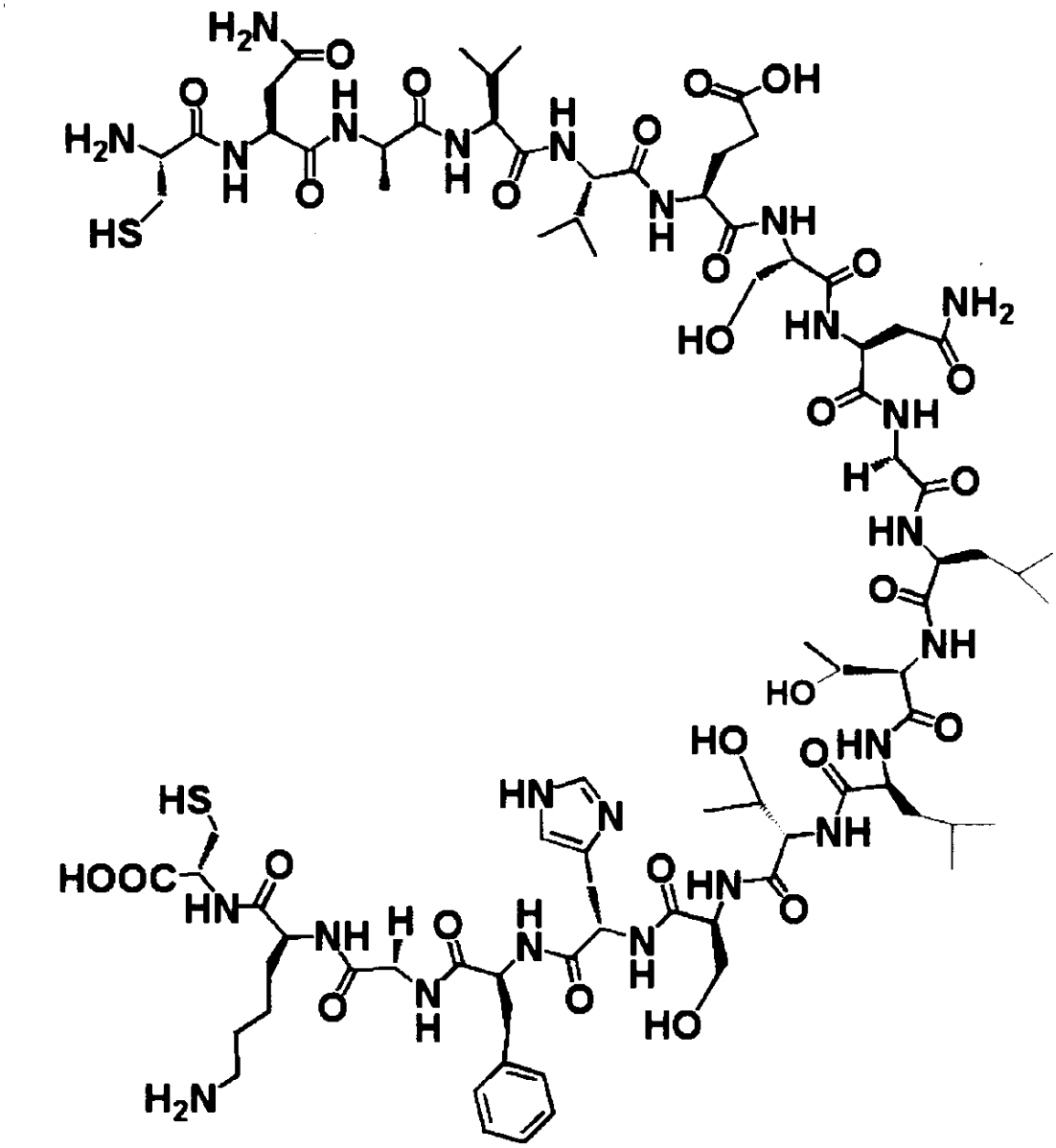
[Figure 2]



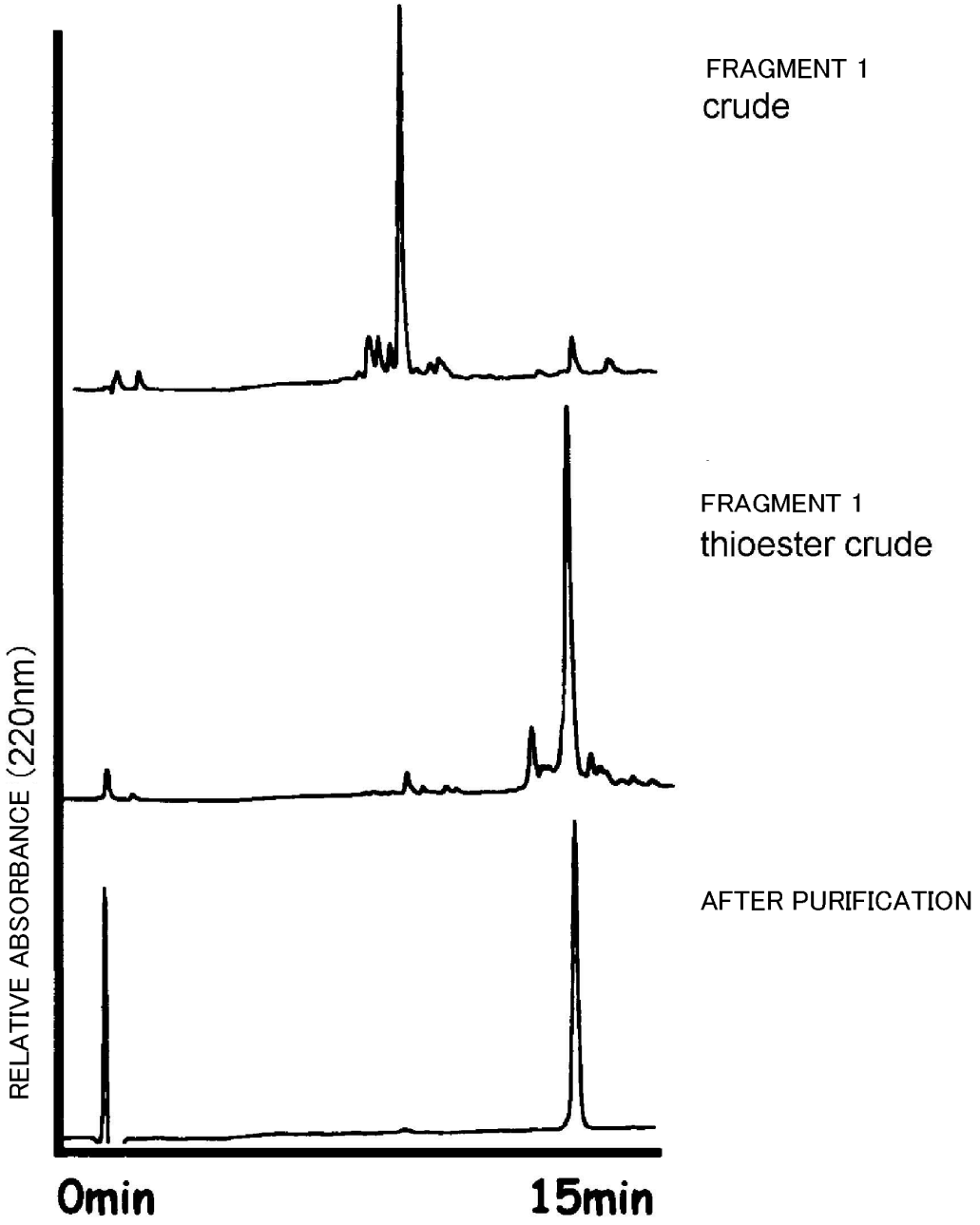
[Figure 3]



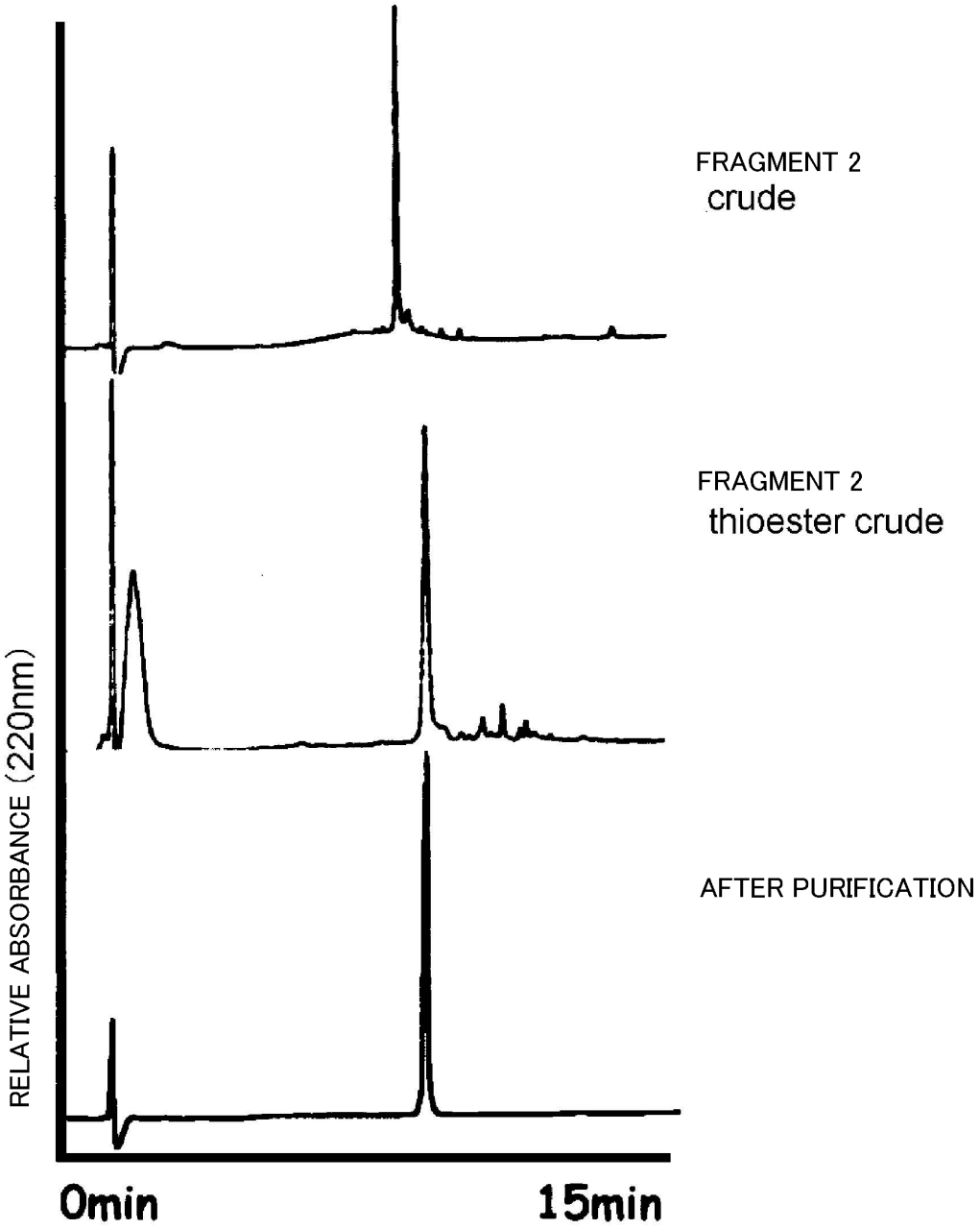
[Figure 4]


H2N
O
H2N
O
N
H
HS
O
H
N
O
N
H
O
H
N
O
N
H
O
OH
NH
O
HO
HN
NH2
O
O
NH
H
O
HN
O
NH
HO
HO
O
HN
NH
HS
HOOC
HN
O
NH
H
O
N
H
O
HN
N
H
N
O
O
HN
O
HO
H2N

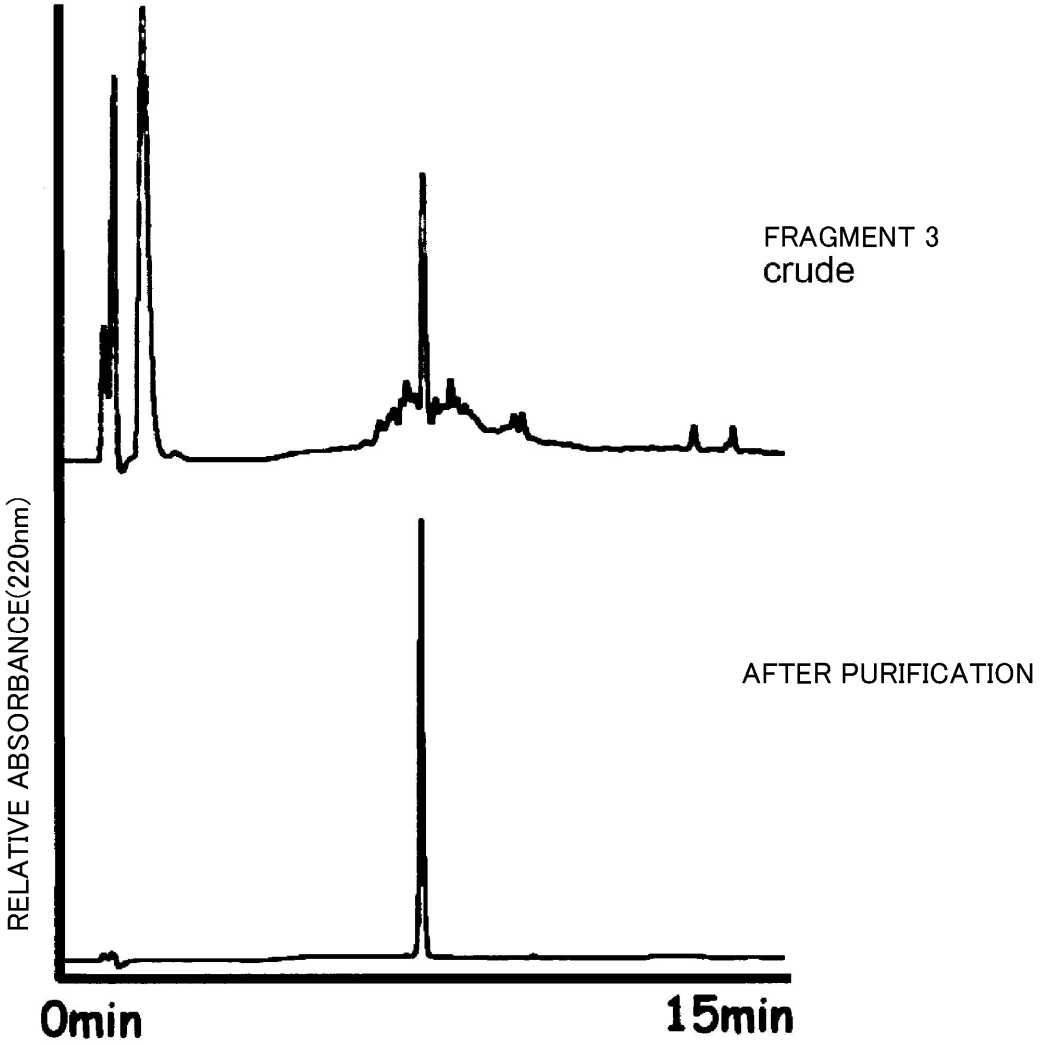
[Figure 5]


FRAGMENT 1
crude
FRAGMENT 1
thioester crude
AFTER PURIFICATION
RELATIVE ABSORBANCE (220nm)
0min
15min

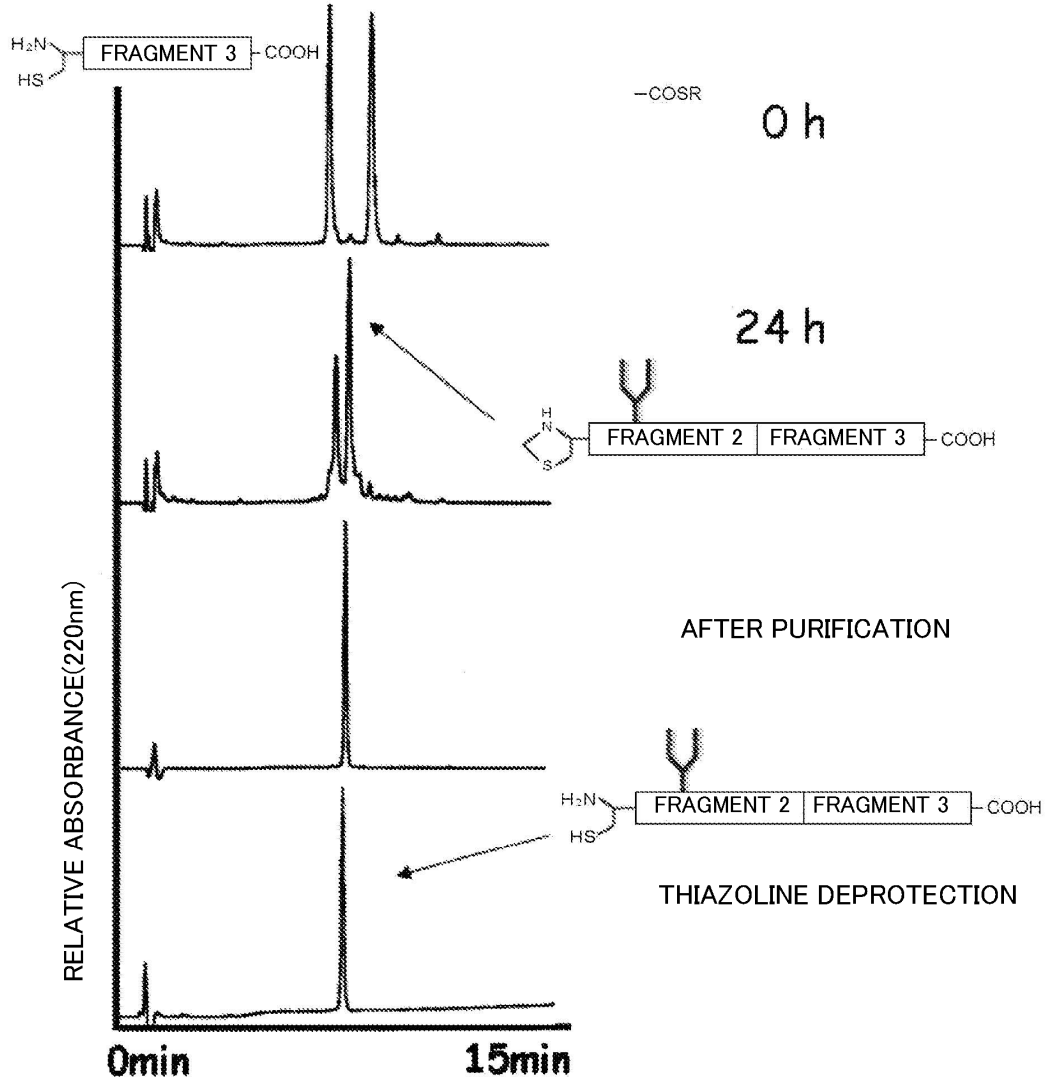
[Figure 6]


FRAGMENT 2
crude
FRAGMENT 2
thioester crude
AFTER PURIFICATION
RELATIVE ABSORBANCE (220nm)
0min
15min

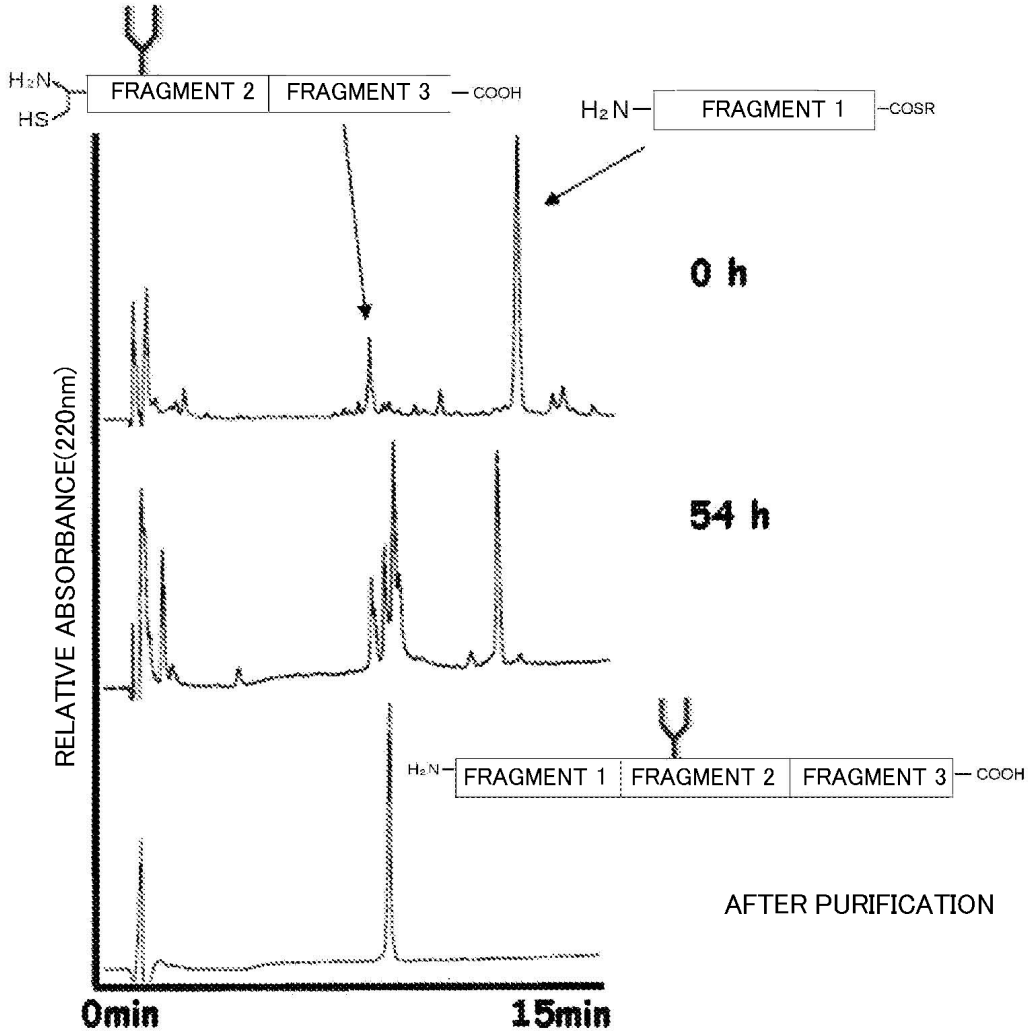
[Figure 7]


FRAGMENT 3
crude
AFTER PURIFICATION
RELATIVE ABSORBANCE(220nm)
0min
15min

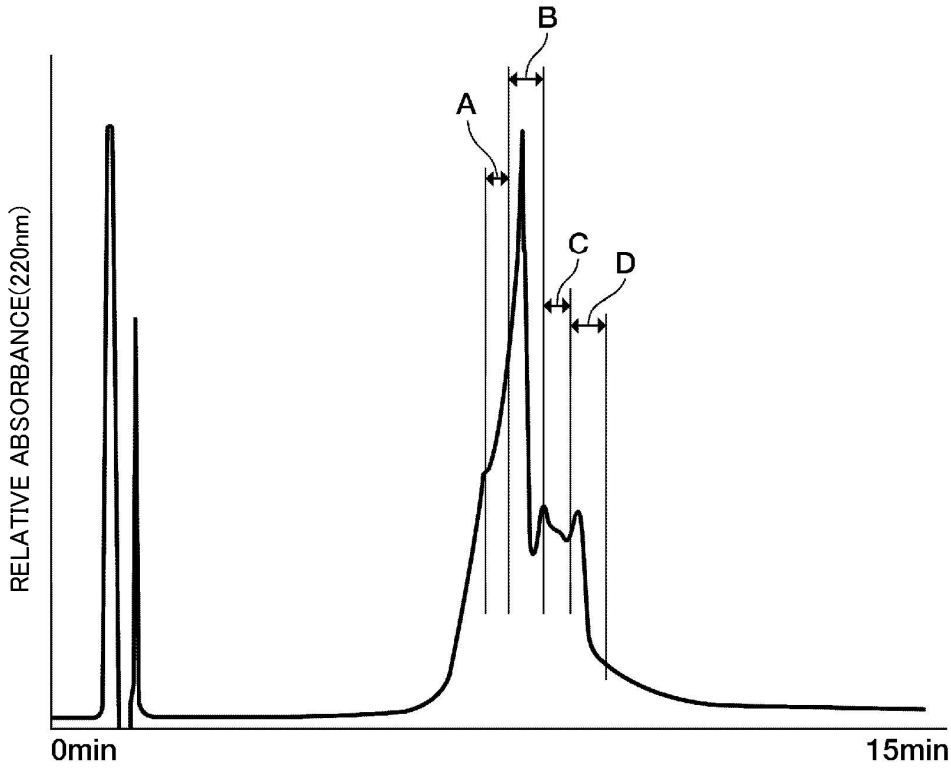
[Figure 8]


H2N
HS
FRAGMENT 3
COOH
COSR
0 h
24 h
H
N
S
FRAGMENT 2
FRAGMENT 3
COOH
AFTER PURIFICATION
H2N
HS
FRAGMENT 2
FRAGMENT 3
COOH
THIAZOLINE DEPROTECTION
RELATIVE ABSORBANCE(220nm)
0min
15min

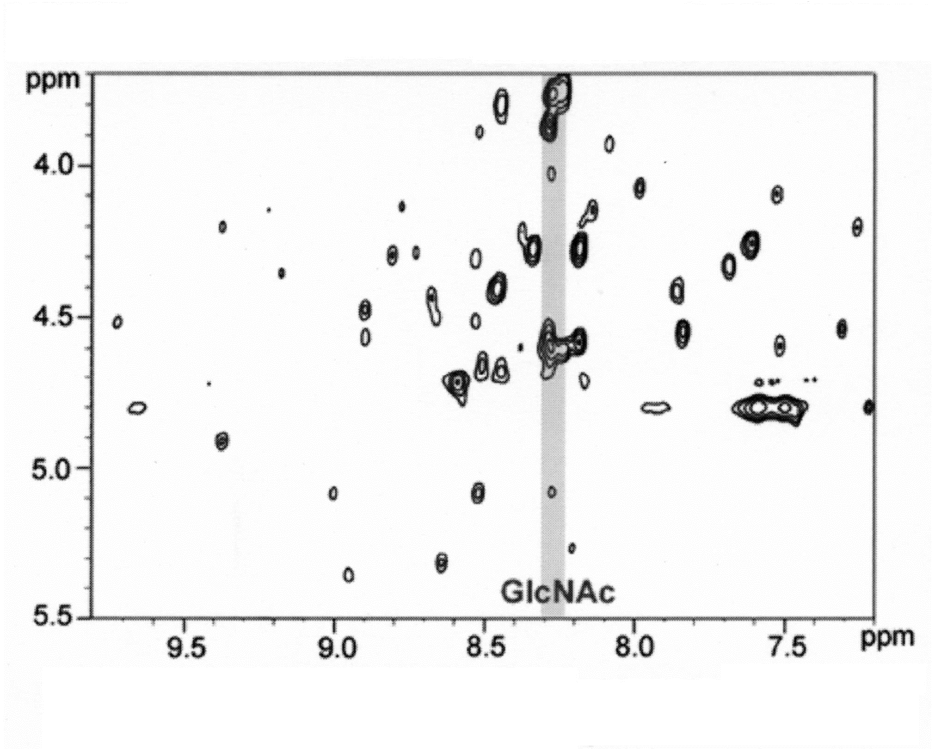
[Figure 9]


H2N
HS
FRAGMENT 2
FRAGMENT 3
COOH
H2N
FRAGMENT 1
COSR
0 h
54 h
RELATIVE ABSORBANCE(220nm)
H2N
FRAGMENT 1
FRAGMENT 2
FRAGMENT 3
COOH
AFTER PURIFICATION
0min
15min

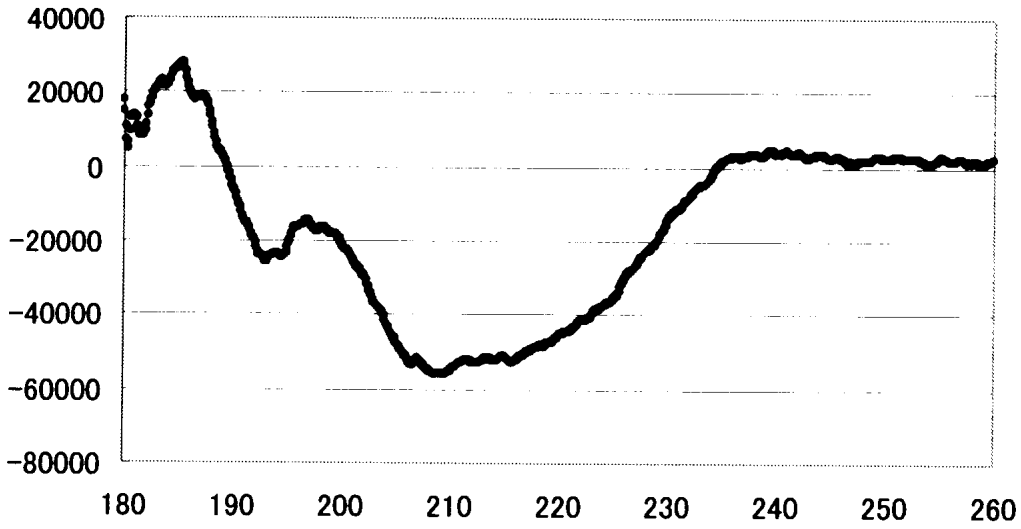
[Figure 10]



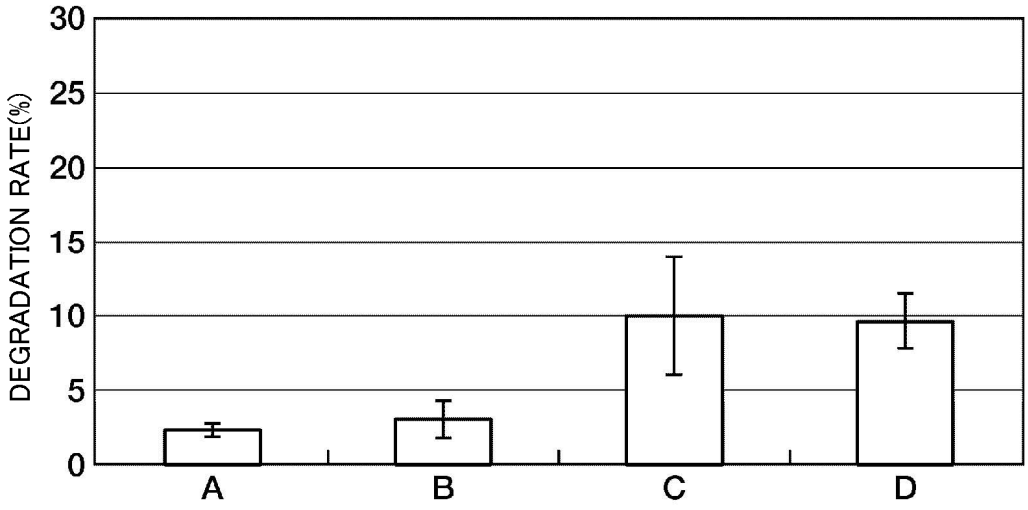
[Figure 11]



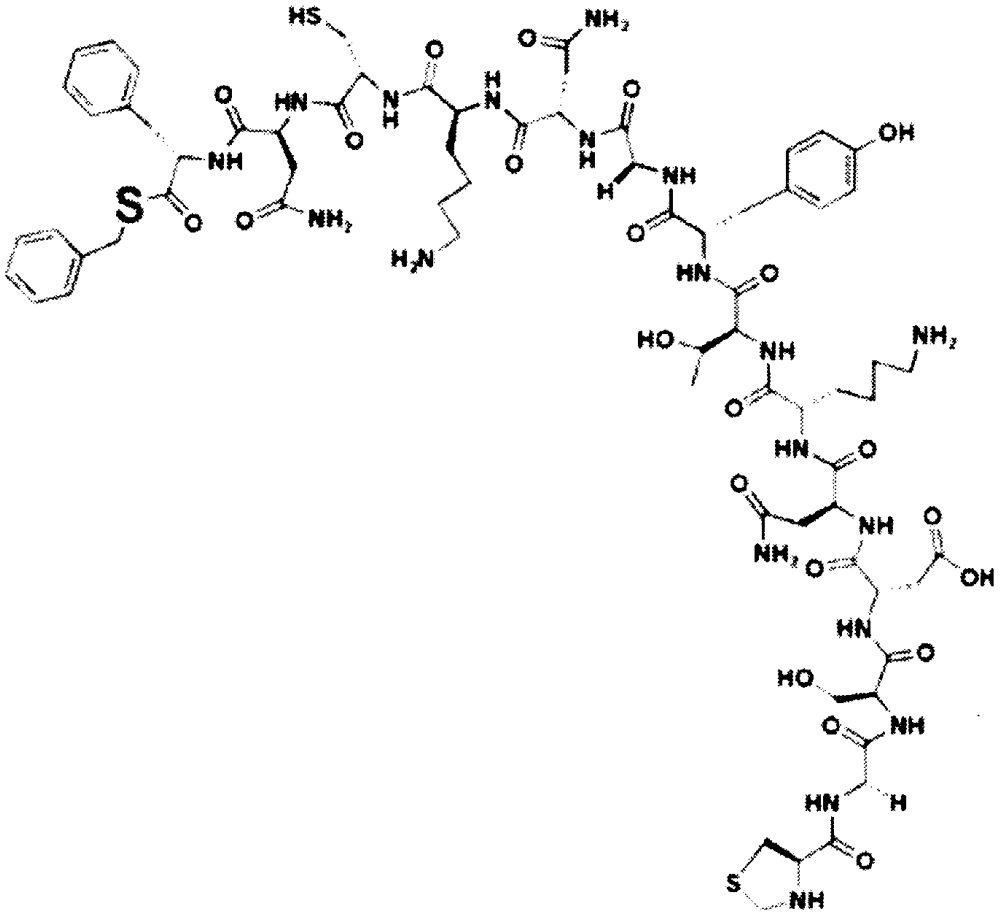
[Figure 12]



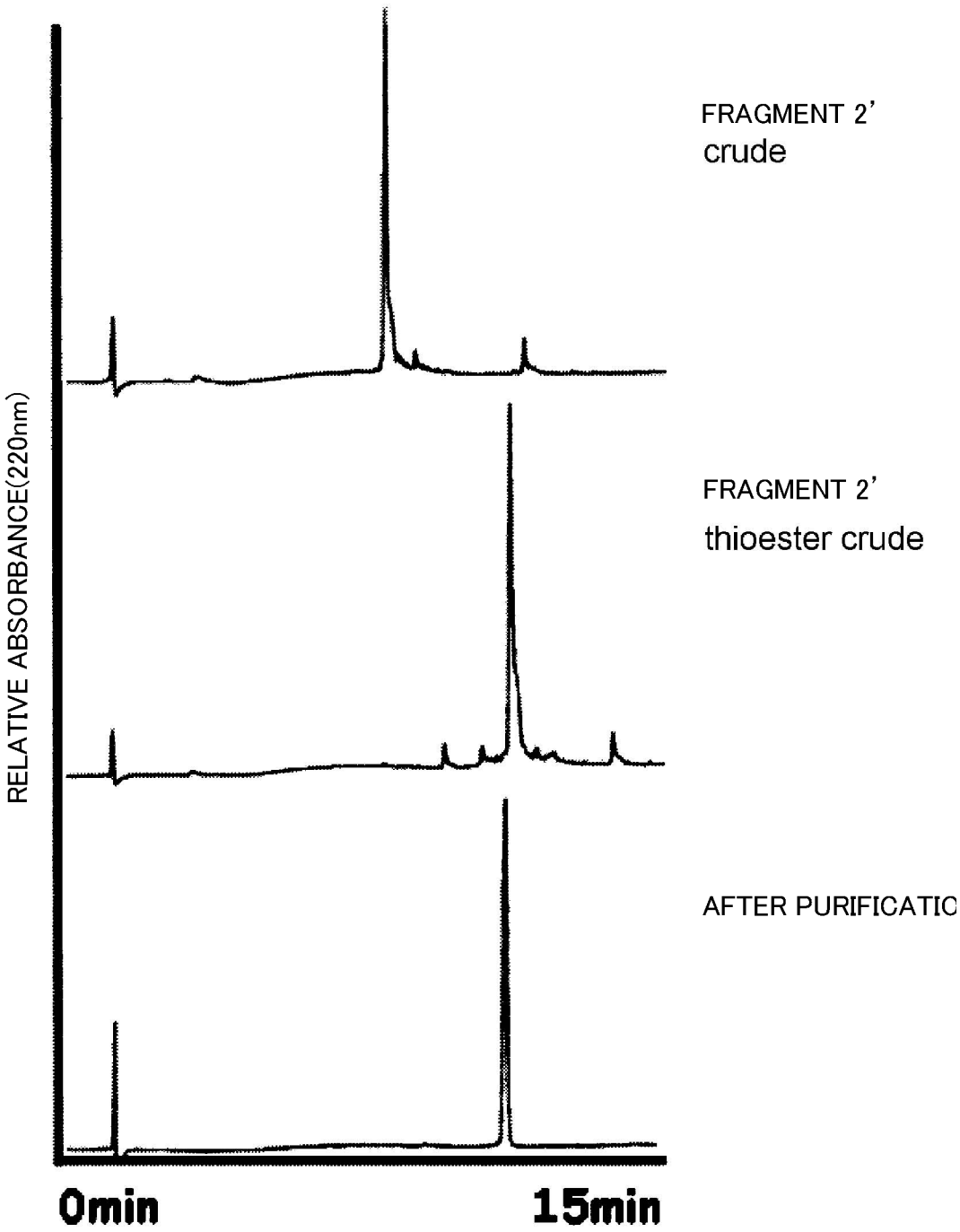
[Figure 13]



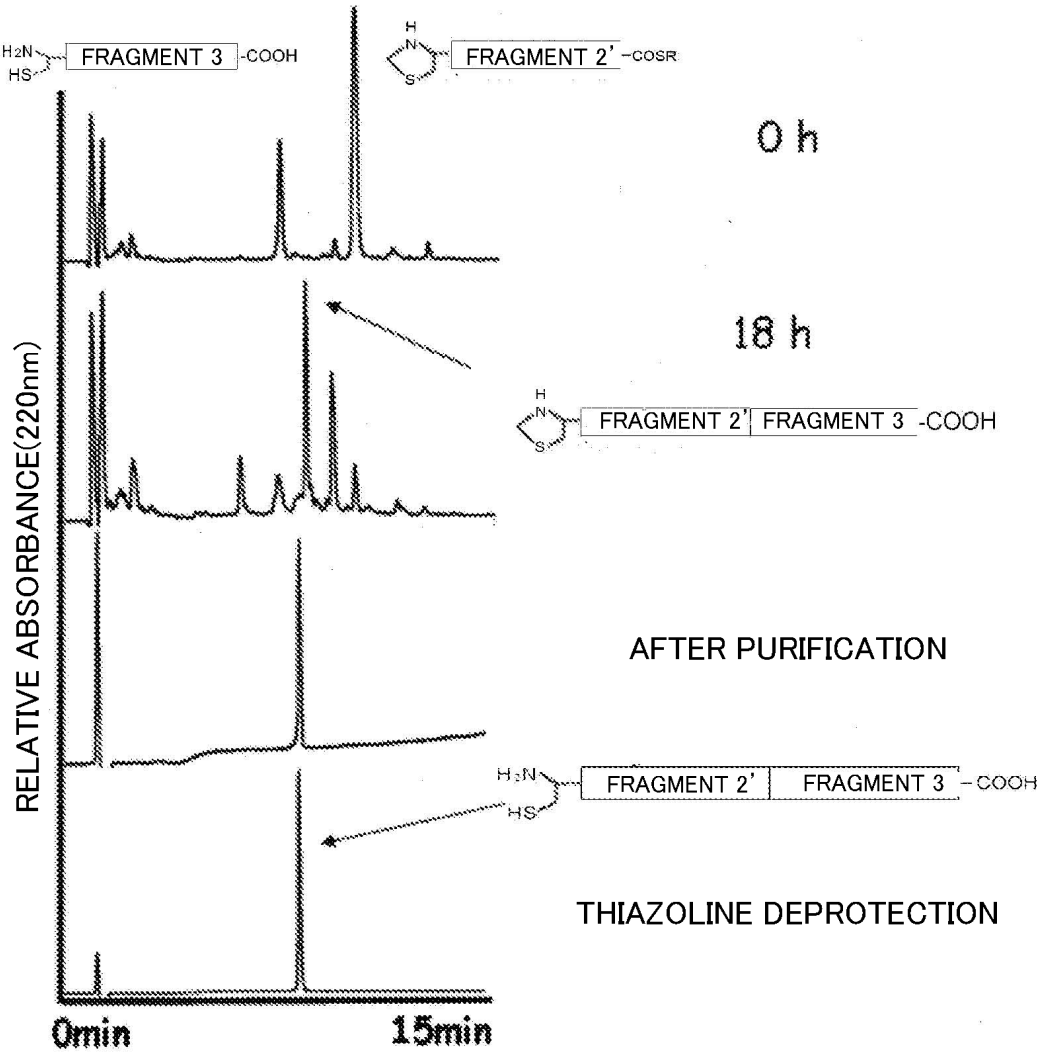
[Figure 14]



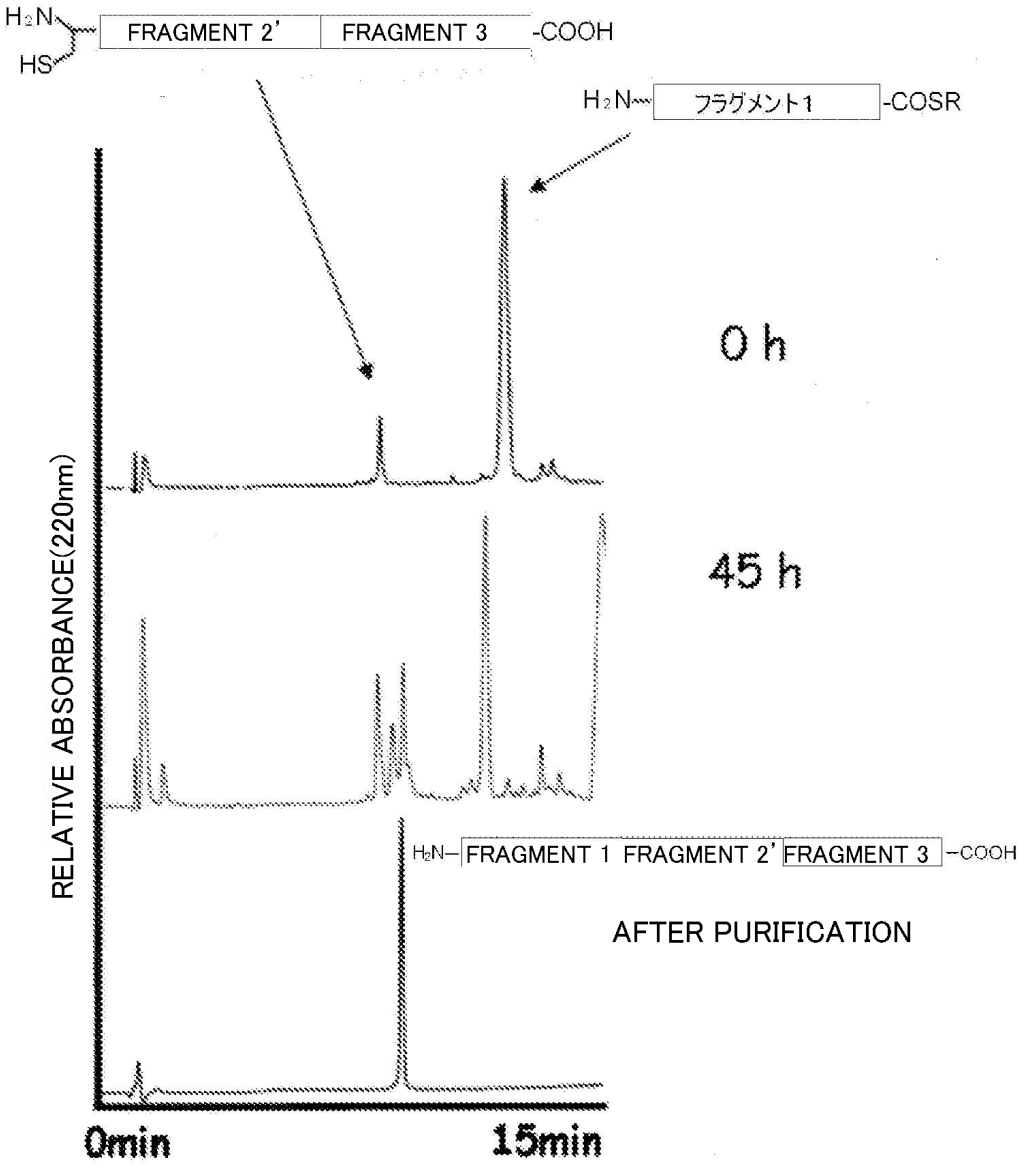
[Figure 15]


RELATIVE ABSORBANCE(220nm)
FRAGMENT 2'
crude
FRAGMENT 2'
thioester crude
AFTER PURIFICATIO
0min
15min

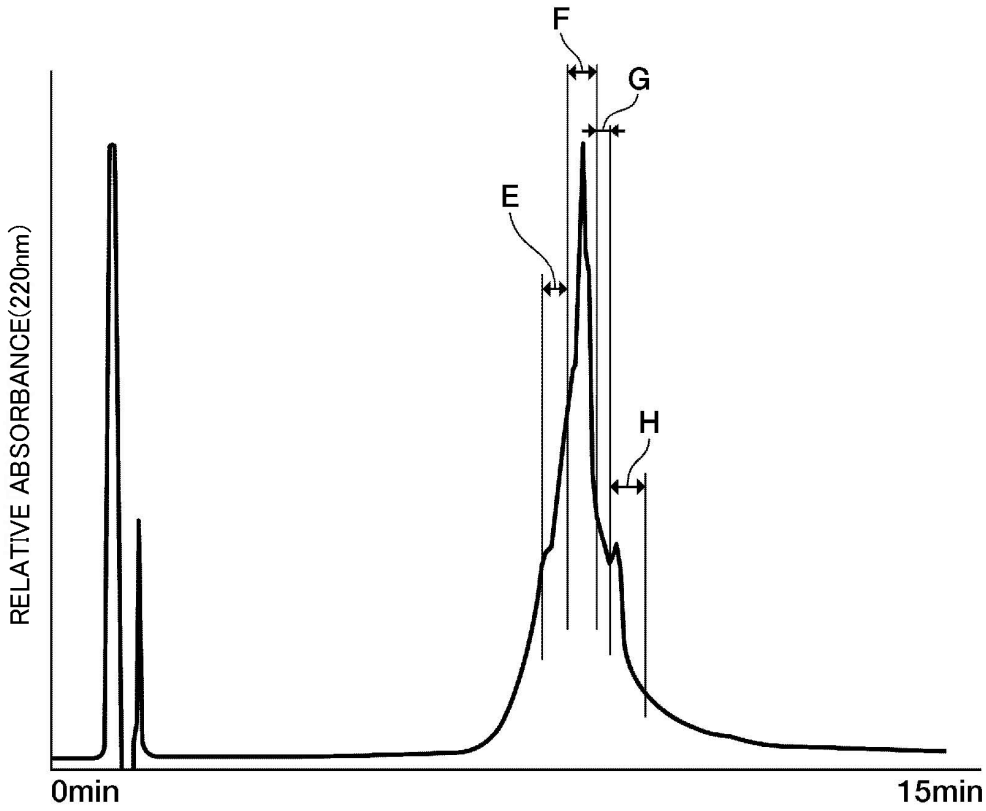
[Figure 16]


H2N
HS
FRAGMENT 3
-COOH
H
N
S
FRAGMENT 2'
-COSR
0 h
18 h
FRAGMENT 2'
FRAGMENT 3
-COOH
AFTER PURIFICATION
FRAGMENT 2'
FRAGMENT 3
-COOH
THIAZOLINE DEPROTECTION
RELATIVE ABSORBANCE(220nm)
0min
15min

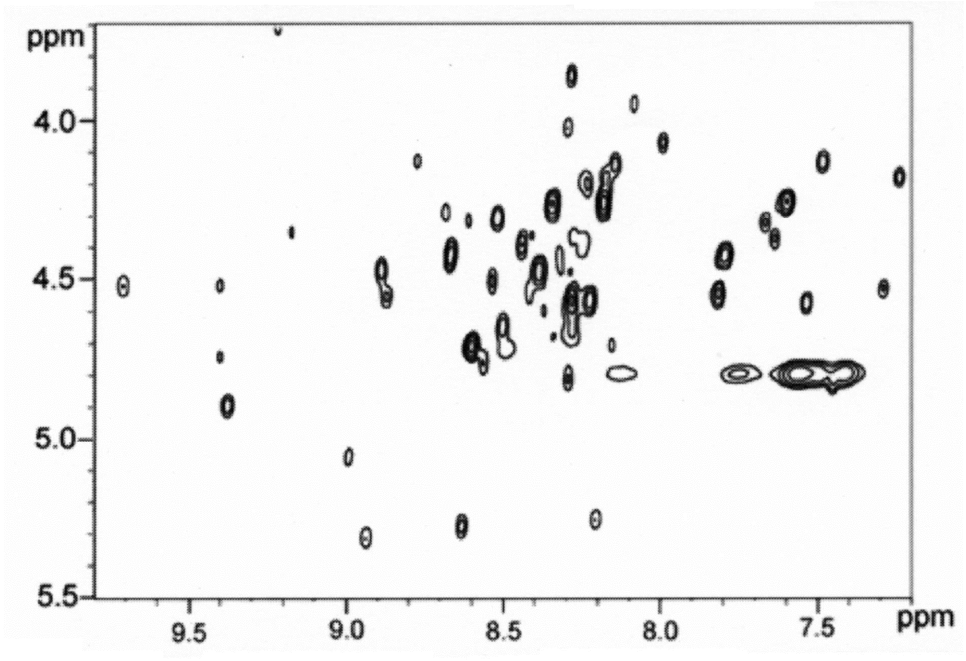
[Figure 17]


H2N
HS
FRAGMENT 2'
FRAGMENT 3
-COOH
H2N
フラグメント1
-COSR
0 h
45 h
RELATIVE ABSORBANCE(220nm)
H2N-
FRAGMENT 1
FRAGMENT 2'
FRAGMENT 3
-COOH
AFTER PURIFICATION
0min
15min

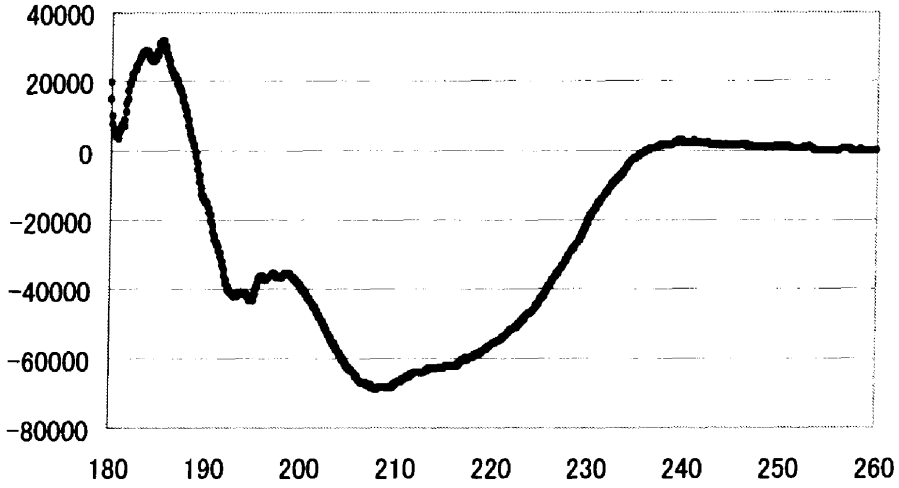
[Figure 18]



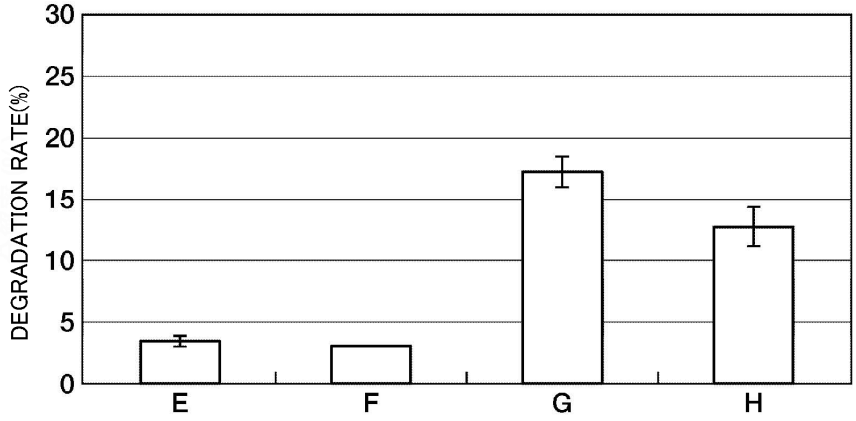
[Figure 19]



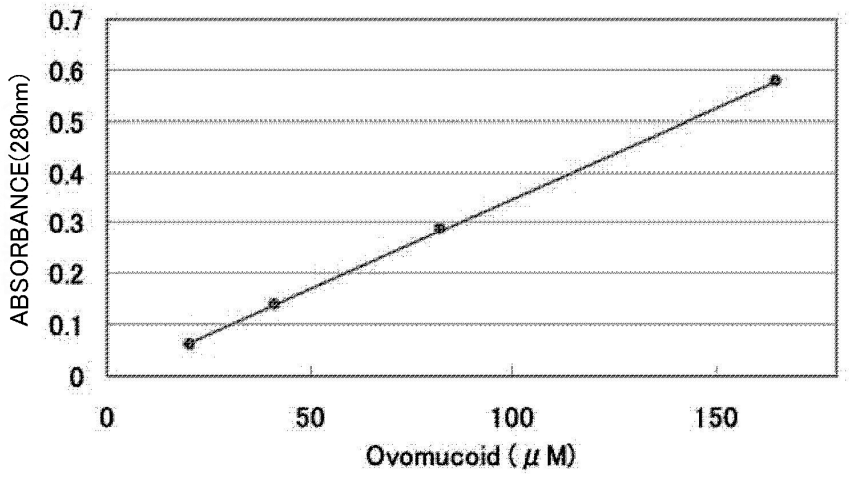
[Figure 20]



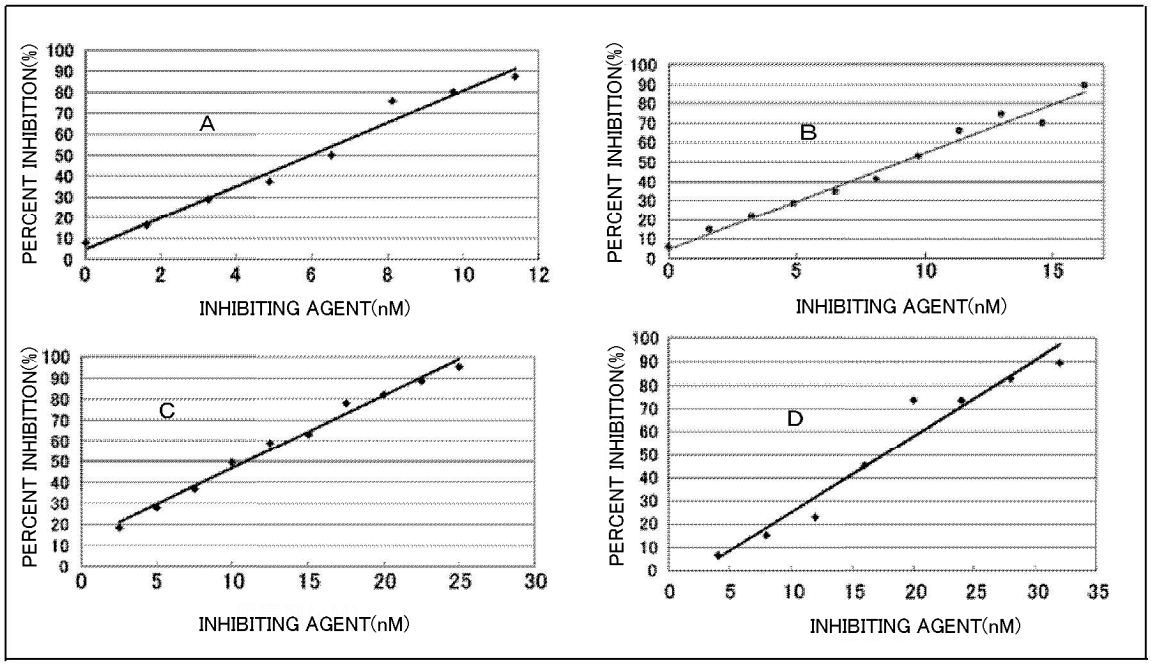
[Figure 21]



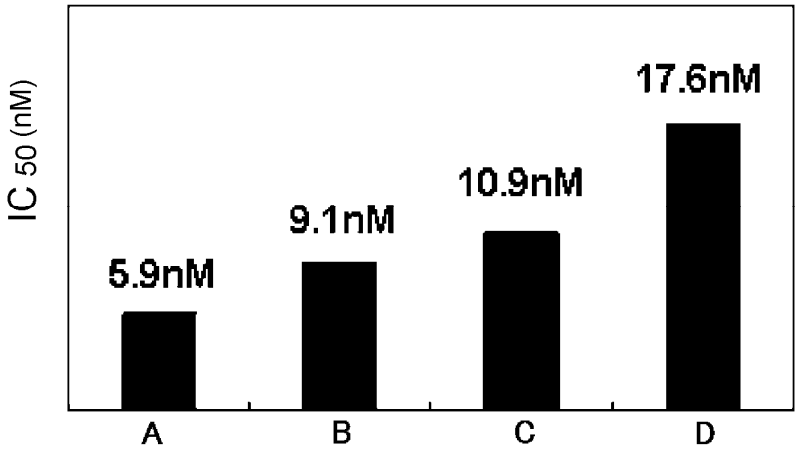
[Figure 22]



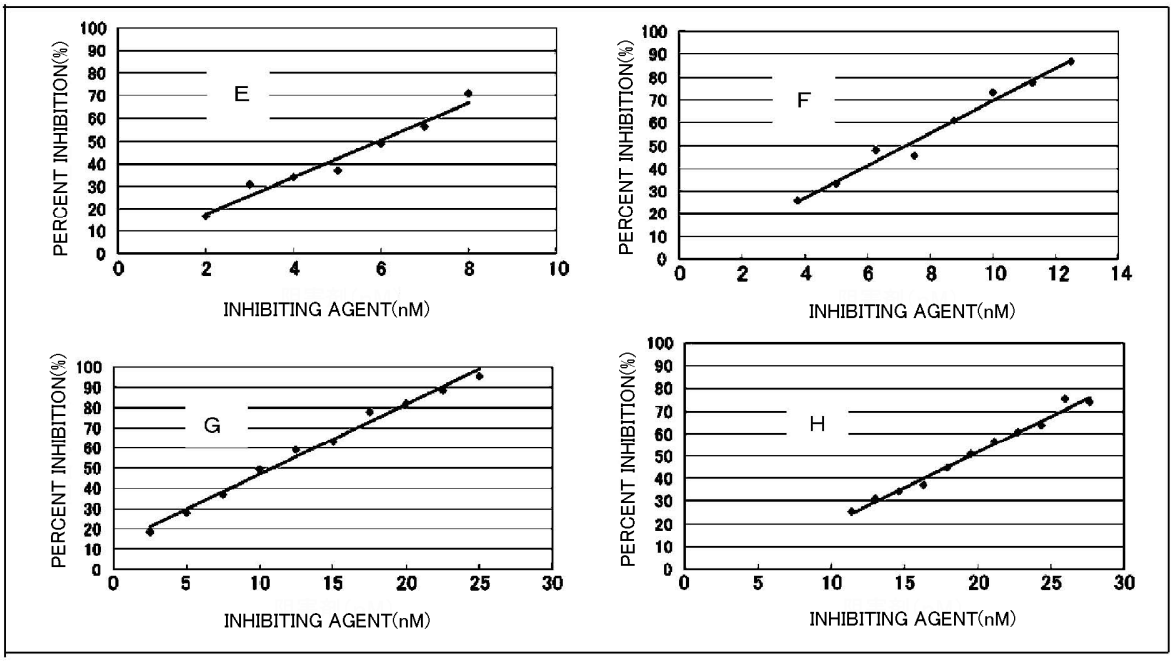
[Figure 23]



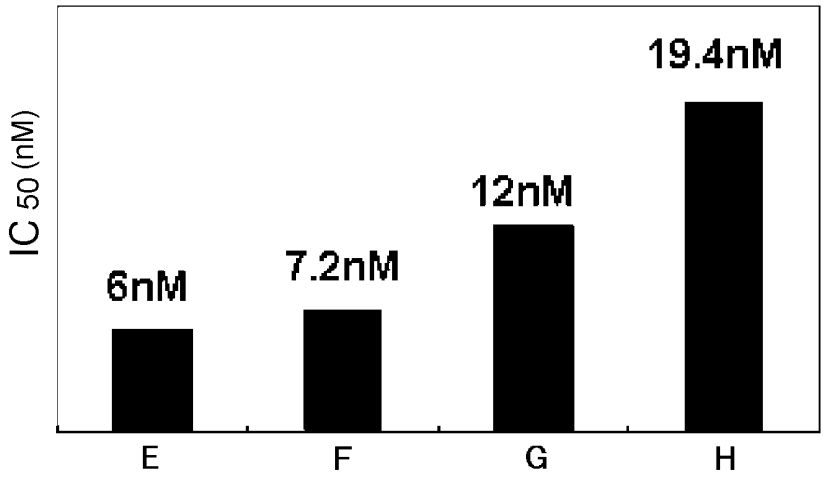
[Figure 24]



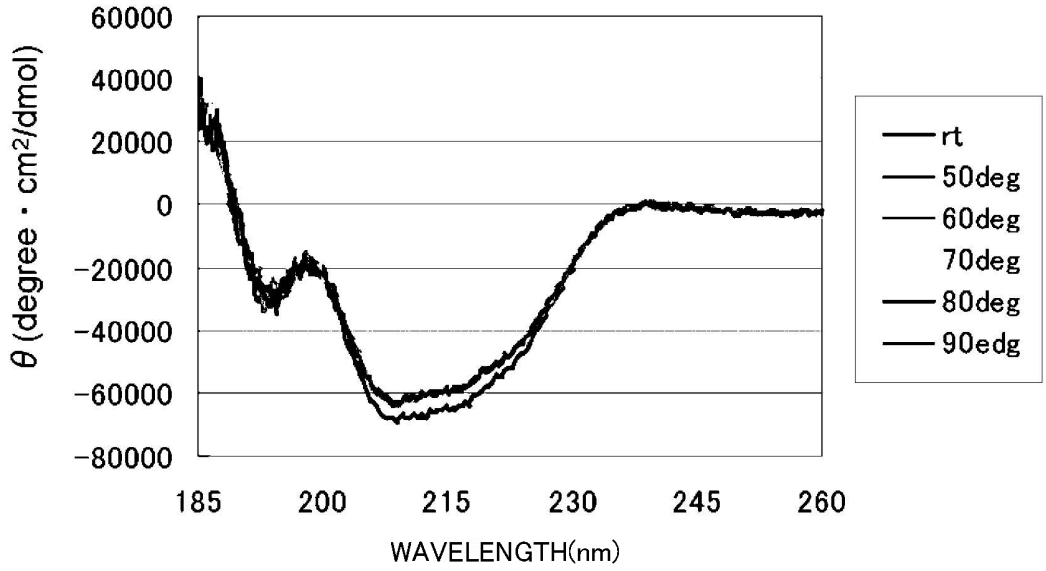
[Figure 25]



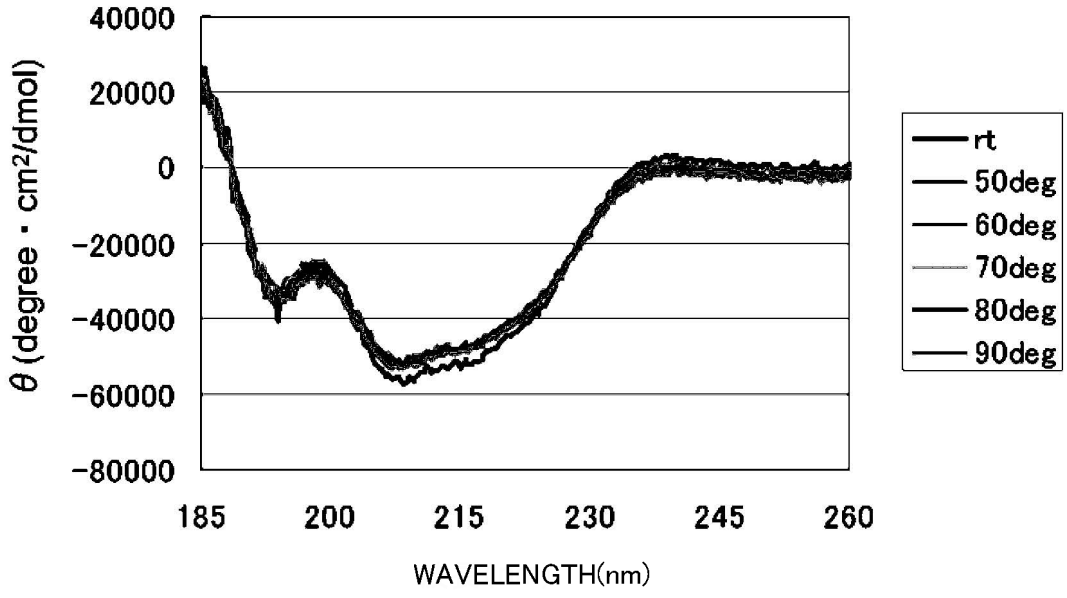
[Figure 26]



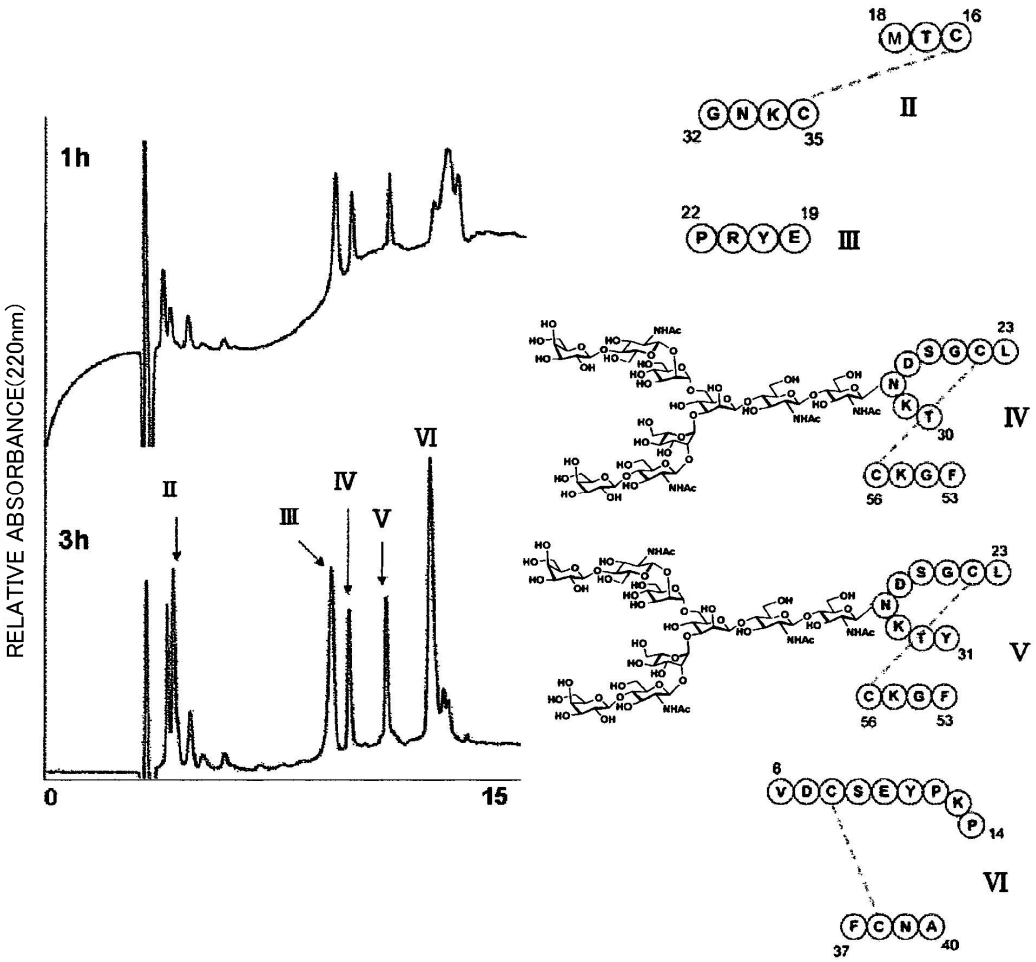
[Figure 27]



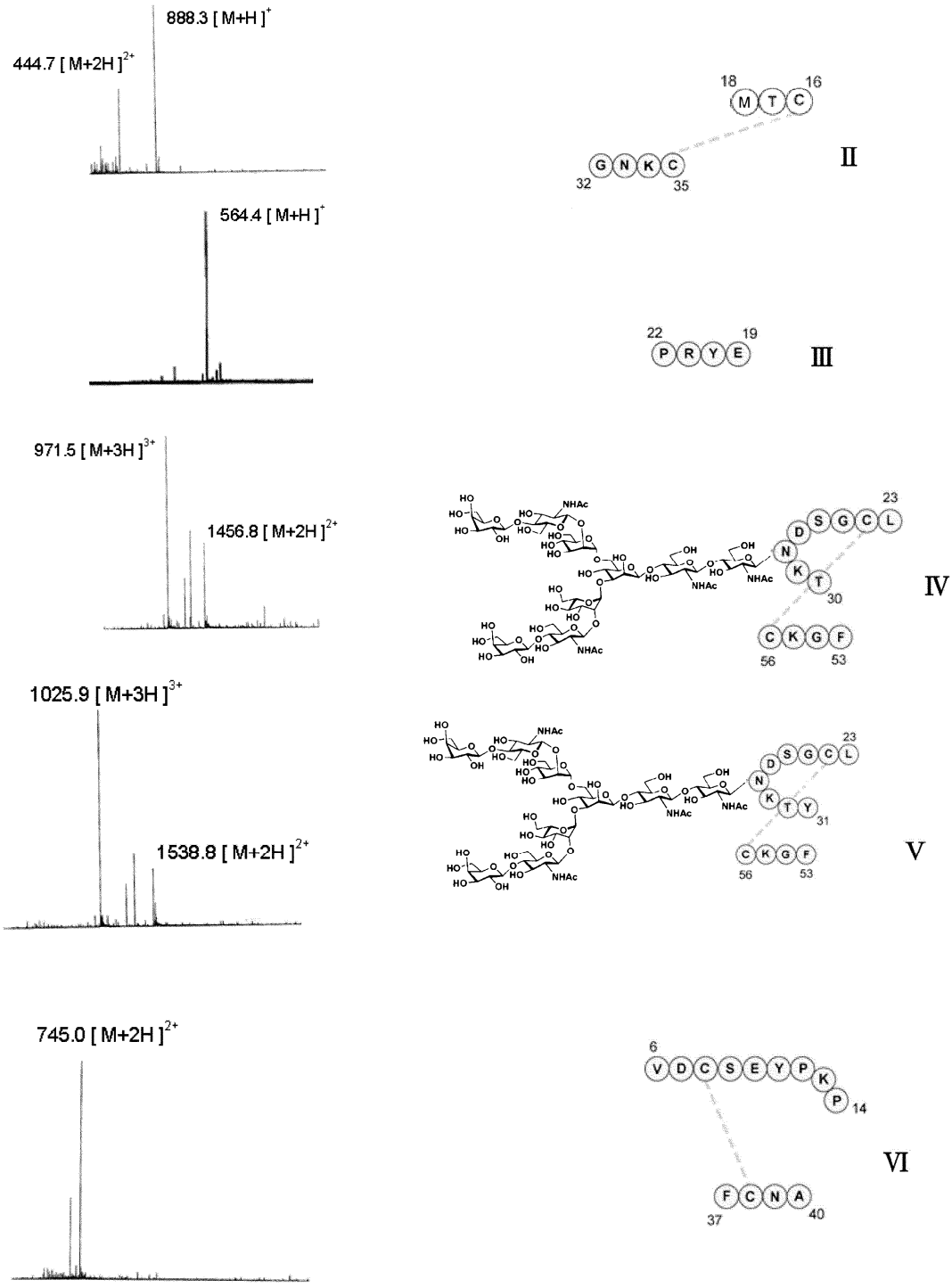
[Figure 28]



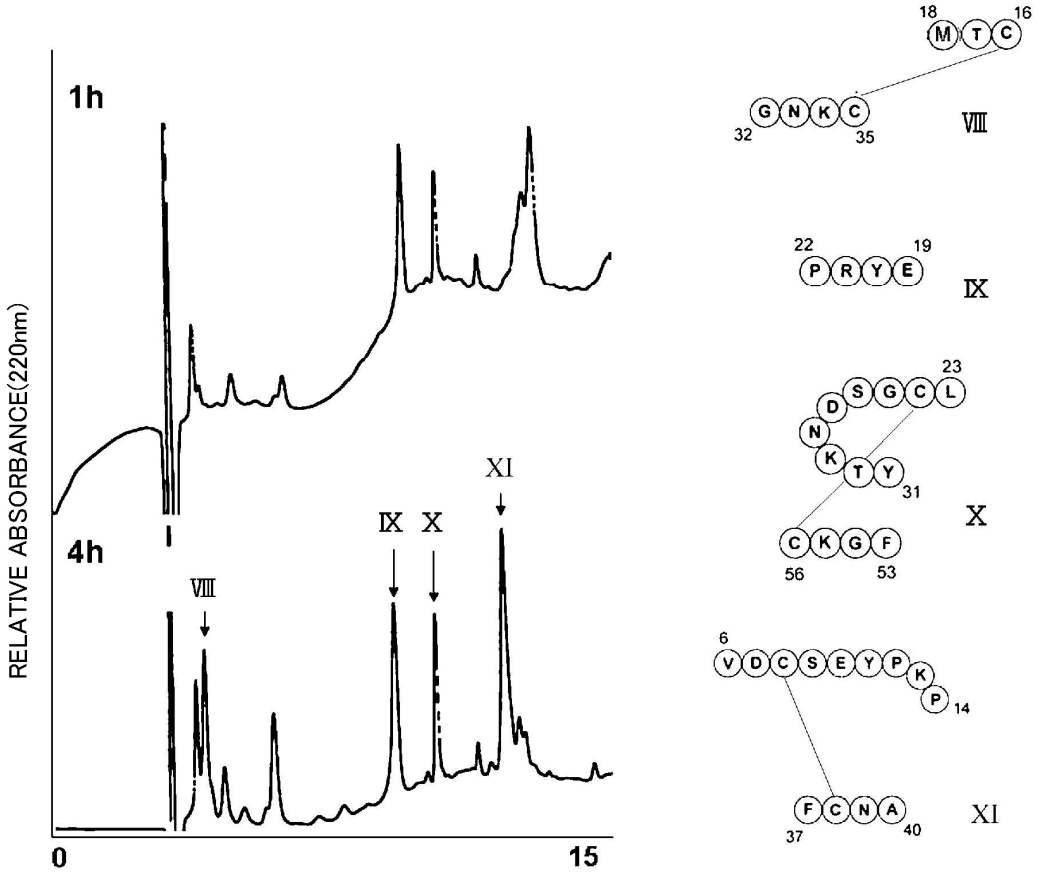
[Figure 29]


1h
3h
RELATIVE ABSORBANCE(220nm)
0
15
II
III
IV
V
VI
18
M T C 16
G N K C
32 35
II
22
P R Y E 19
III
23
D S G C L
N
K T 30
C K G F
56 53
IV
23
D S G C L
N
K T Y 31
C K G F
56 53
V
6
V D C S E Y P K P 14
VI
F C N A
37 40

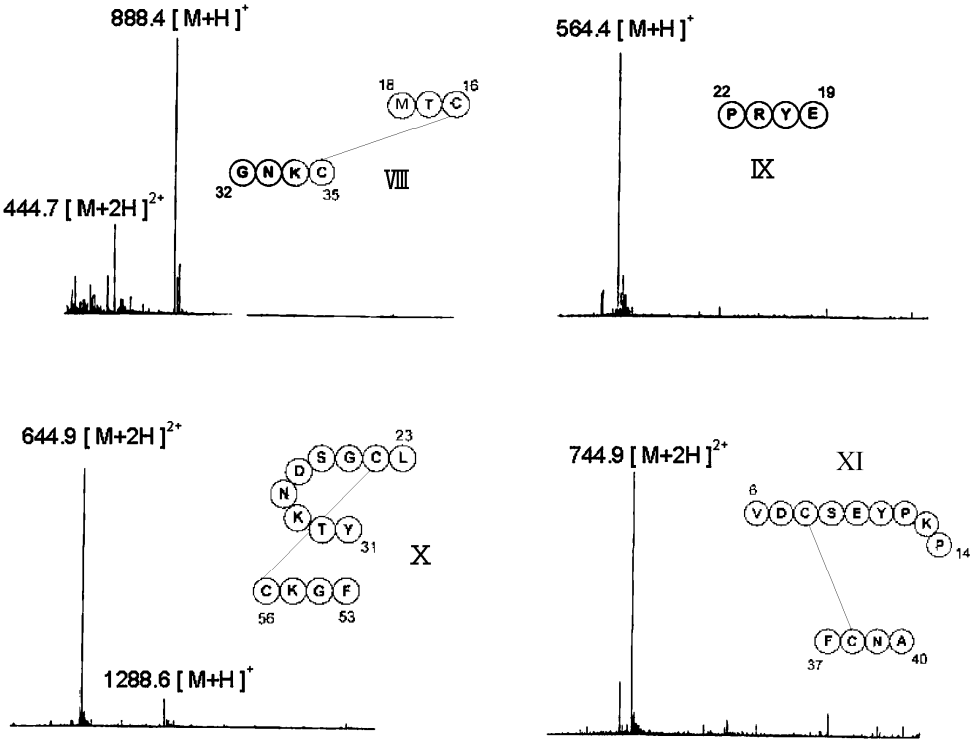
[Figure 30]


888.3 [M+H]+
444.7 [M+2H]2+
564.4 [M+H]+
971.5 [M+3H]3+
1456.8 [M+2H]2+
1025.9 [M+3H]3+
1538.8 [M+2H]2+
745.0 [M+2H]2+
II
III
IV
V
VI

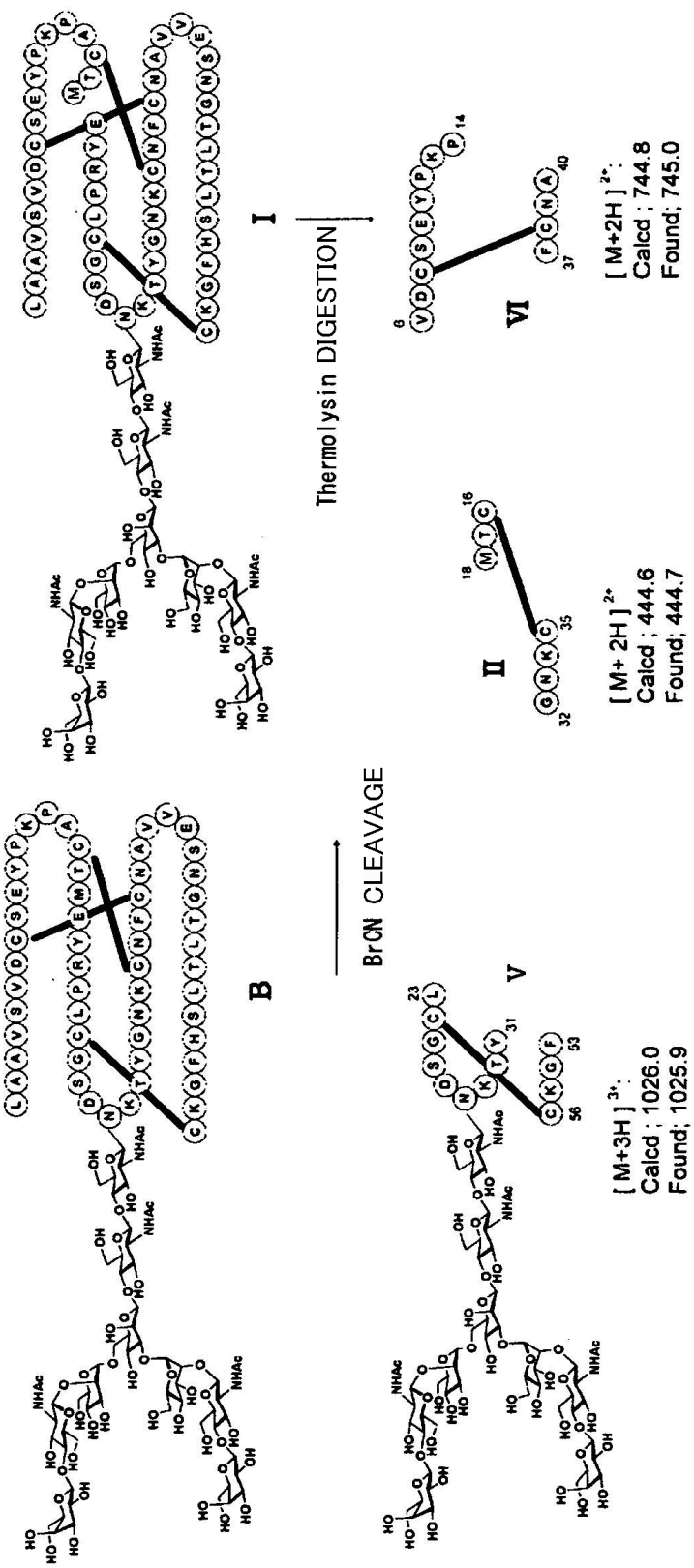
[Figure 31]


1h
4h
RELATIVE ABSORBANCE(220nm)
0
15
VIII
IX
X
XI
18
M T C
16
G N K C
32
35
VIII
22
P R Y E
19
IX
23
S G C L
D
N
K
T Y
31
X
C K G F
56
53
6
V D C S E Y P K
P
14
F C N A
37
40
XI

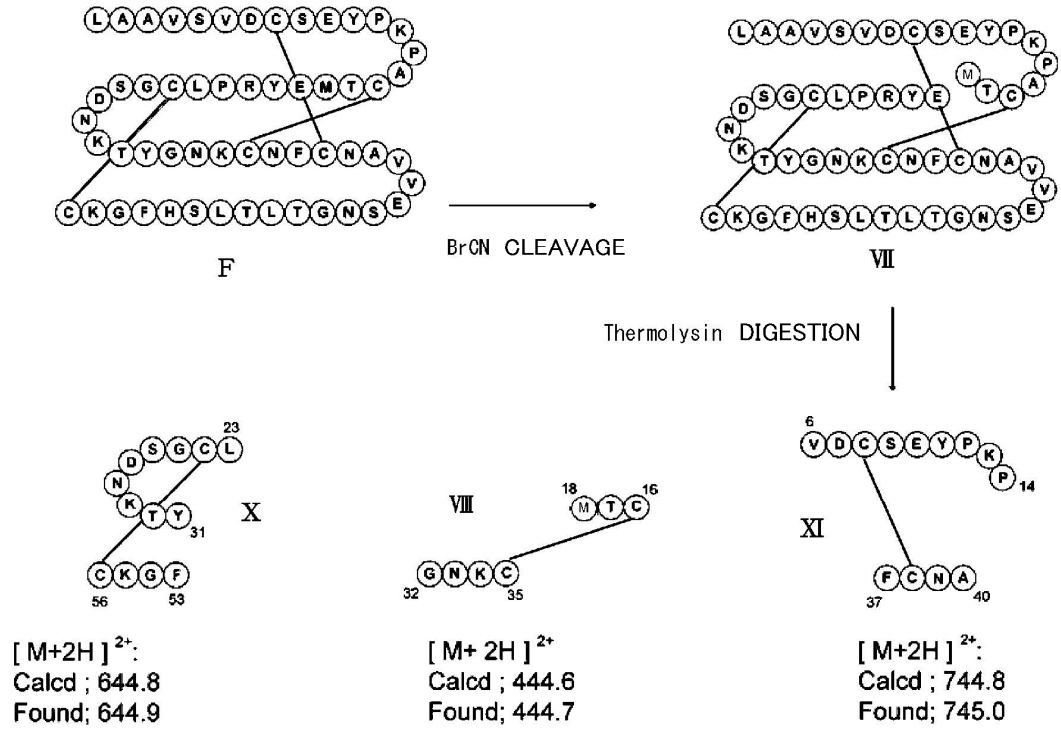
[Figure 32]


888.4 [M+H]+
444.7 [M+2H]2+
18 M T C 16
32 G N K C 35
VIII
564.4 [M+H]+
22 P R Y E 19
IX
644.9 [M+2H]2+
1288.6 [M+H]+
23 D S G C L
N K T Y 31
C K G F
56 53
X
744.9 [M+2H]2+
XI
6 V D C S E Y P K P 14
F C N A
37 40

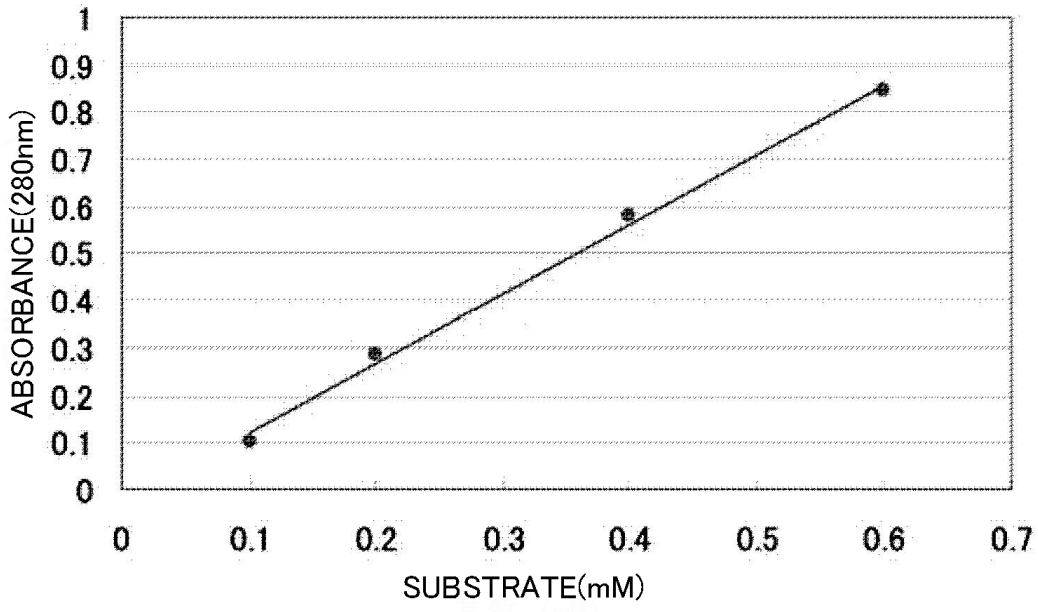
[Figure 33]


I
Thermolysin DIGESTION
VI
[M+2H]2+:
Calcd ; 744.8
Found; 745.0
II
[M+2H]2+
Calcd ; 444.6
Found; 444.7
B
BrCN CLEAVAGE
V
[M+3H]3+:
Calcd ; 1026.0
Found; 1025.9

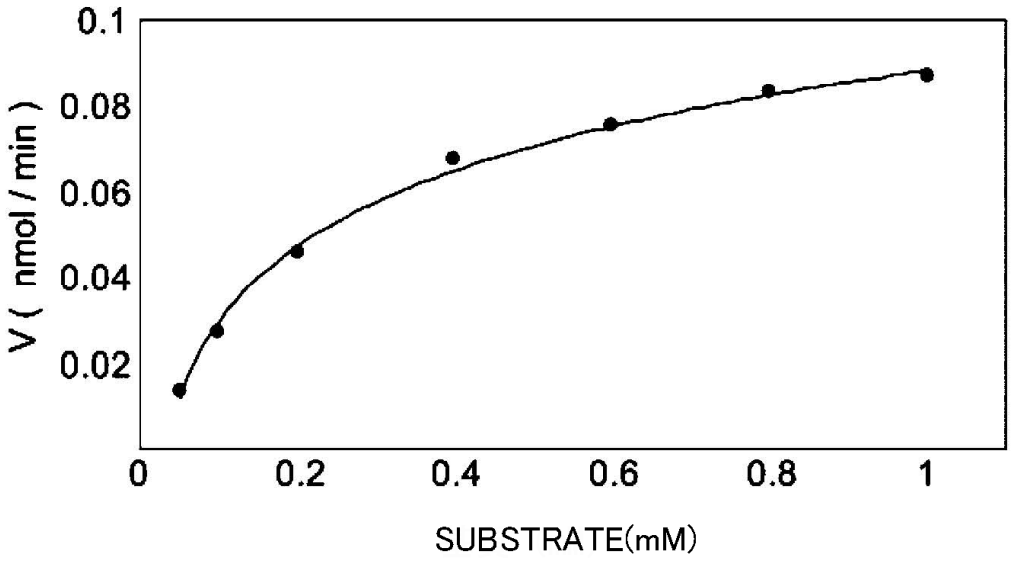
[Figure 34]



[Figure 35]



[Figure 36]



[Figure 37]

