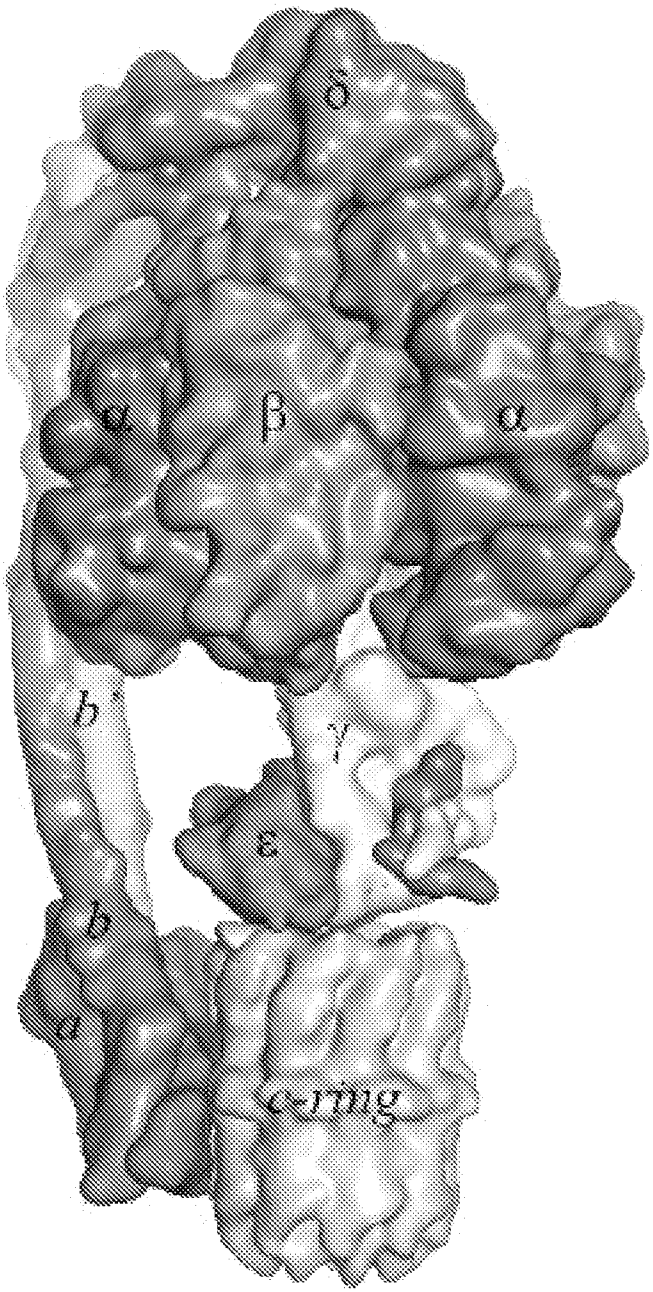


FIG. 1A

Homo sapiens 1 MLPAALLRRPGLGRLVRHARAYAEAAAAPAAASGPNQMSFTFASPTQVFFNMGANVRQMDV 60 SEQ ID NO: 3
Escherichia coli 1 ---------- 26 SEQ ID NO: 4
Mycobacterium abscessus sensu lato 1 ---------- 25 SEQ ID NO: 5
Mycobacterium abscessus bolletii 1 ---------- 25 SEQ ID NO: 6
Mycobacterium abscessus massiliense 1 ---------- 25 SEQ ID NO: 7
Homo sapiens 61 PELTTAAFGEEAASVFTLQVYERPGLVKVHAEDETTSKYFVSSESIAVNADSSAQLAPEAV 120 SEQ ID NO: 3
Escherichia coli 27 TGSEGELGYPGHAPPLTAIKPGMIRIVKQHGHEEFIY-LSGEIEVQPGNYIVEKDTAI 85 SEQ ID NO: 4
Mycobacterium abscessus sensu lato 26 RTTSGEIGLIPHHIPEVAQLVDDAAYKIERFGSDDLWWAIDGGFISITDTKYSIIAESAQ 85 SEQ ID NO: 5
Mycobacterium abscessus bolletii 26 RTTSGEIGLIPHHIPEVAQLVDDAAYKIERFGSDDLWWAIDGGFISITDTKYSIIAESAQ 85 SEQ ID NO: 6
Mycobacterium abscessus massiliense 26 RTTSGEIGLIPHHIPEVAQLVDDAAYKIERFGSDDLWWAIDGGFISITDTKYSIIAESAQ 85 SEQ ID NO: 7
Homo sapiens 121 TLDMLGLGKANLEKAQAELYGTADEATRKEIQ---------IREFANEALKALE 168 SEQ ID NO: 3
Escherichia coli 86 RGQDLDEARAMEAKRKAEEHISSSHGDVDYQASAELAKAIAQLERVIELTKKAM- 139 SEQ ID NO: 4
Mycobacterium abscessus sensu lato 86 ARADIDEAKKTDSGS---------EDPRVAQGR---------ARLRALGQTV---- 121 SEQ ID NO: 5
Mycobacterium abscessus bolletii 86 ARADIDESKKTDSGS---------EDPRVAQGR---------ARLRALGQTV---- 121 SEQ ID NO: 6
Mycobacterium abscessus massiliense 86 ARADIDESKKTDSGS---------EDPRVAQGR---------ARLRALGQTV---- 121 SEQ ID NO: 7

FIG. 1B

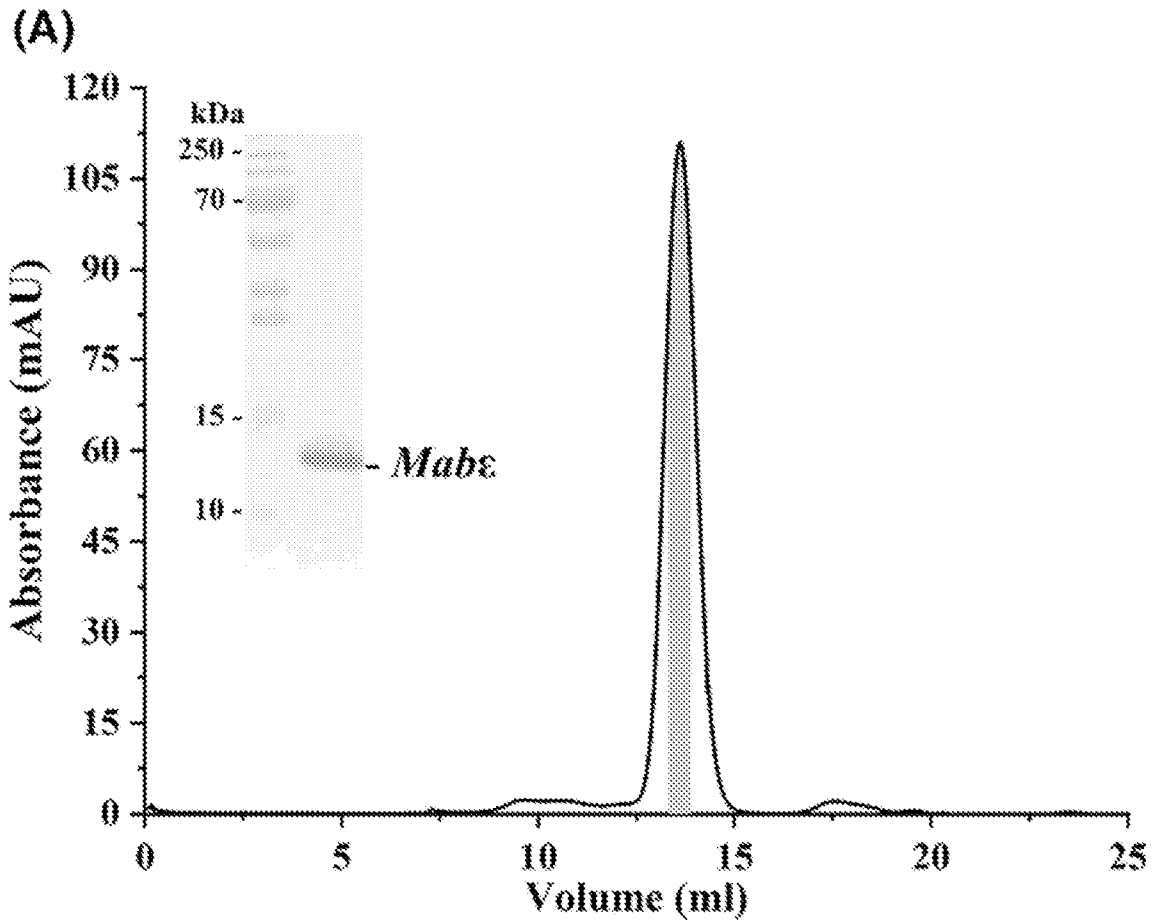

(A)
120
105
90
75
60
45
30
15
0
Absorbance (mAU)
kDa
250 -
70 -
15 -
10 -
Mabε
0
5
10
15
20
25
Volume (ml)

FIG. 2A

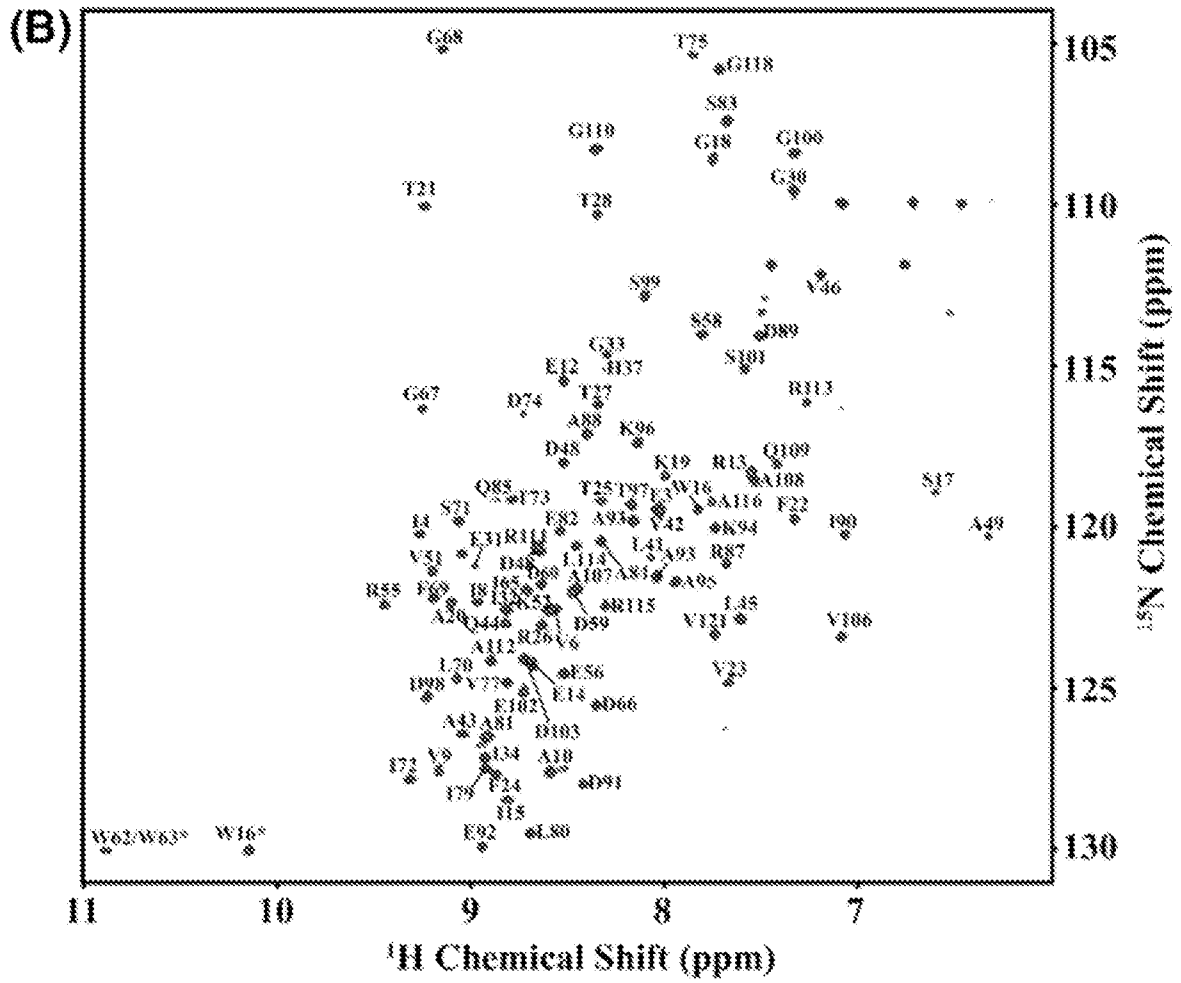

(B)
105
110
115
120
125
130
15N Chemical Shift (ppm)
11
10
9
8
7
1H Chemical Shift (ppm)

FIG. 2B

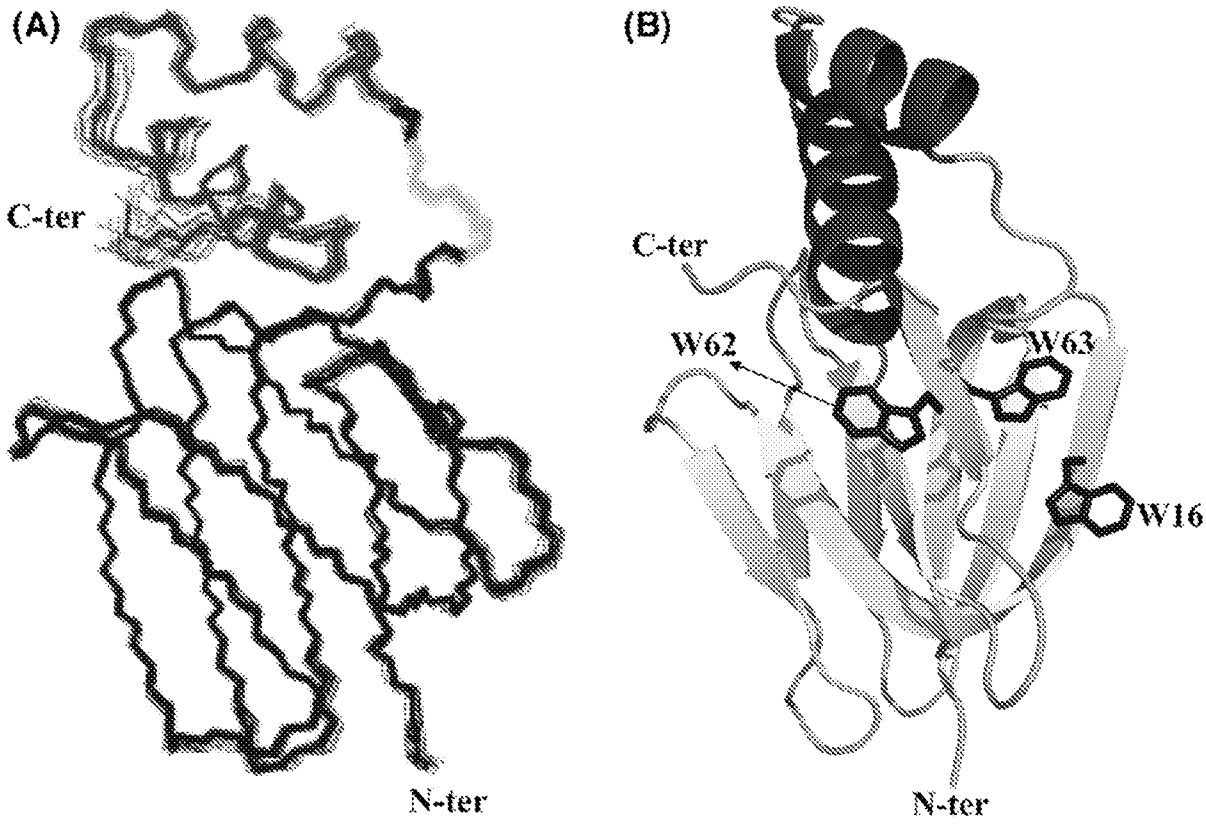


FIG. 3

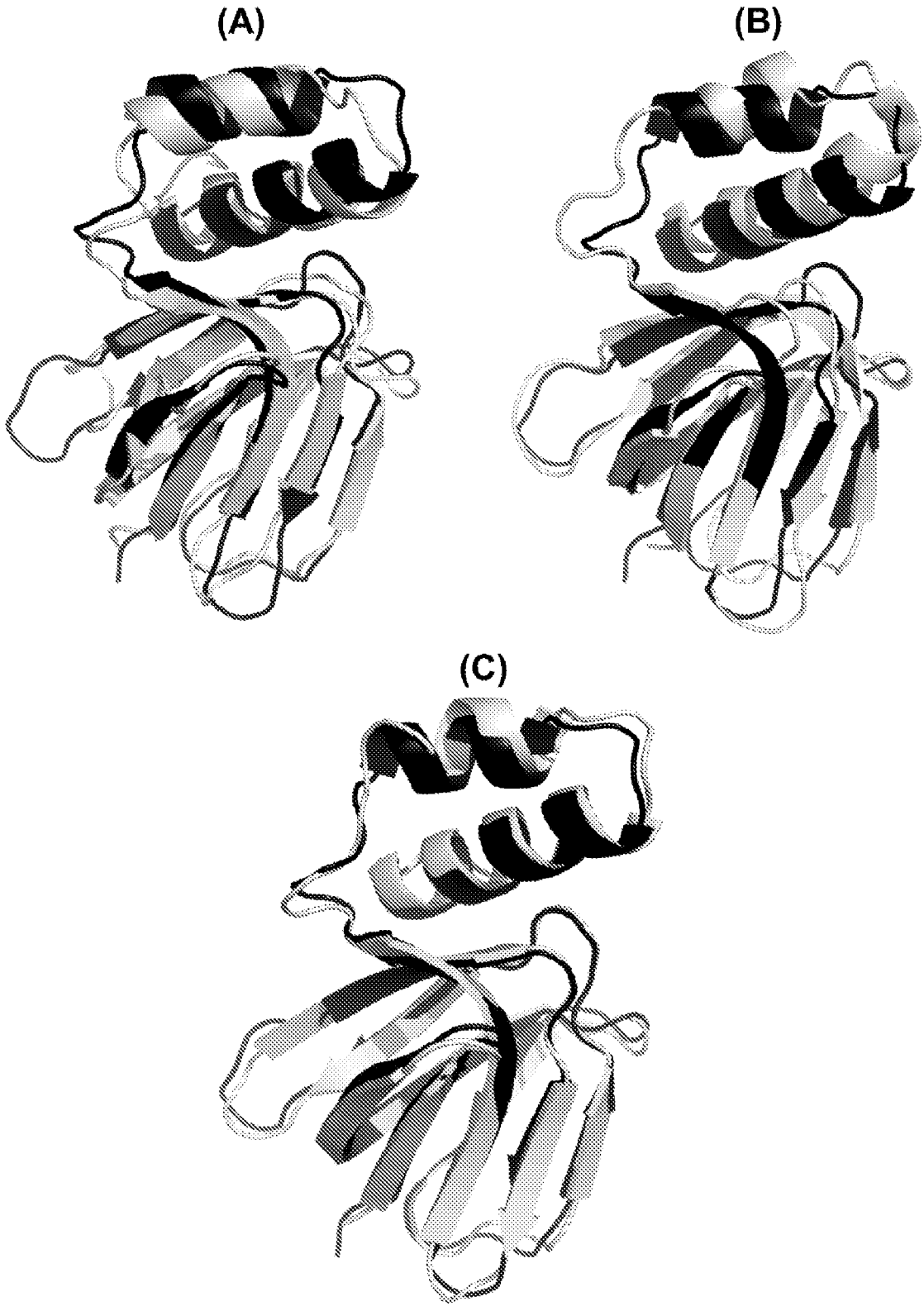


FIG. 4

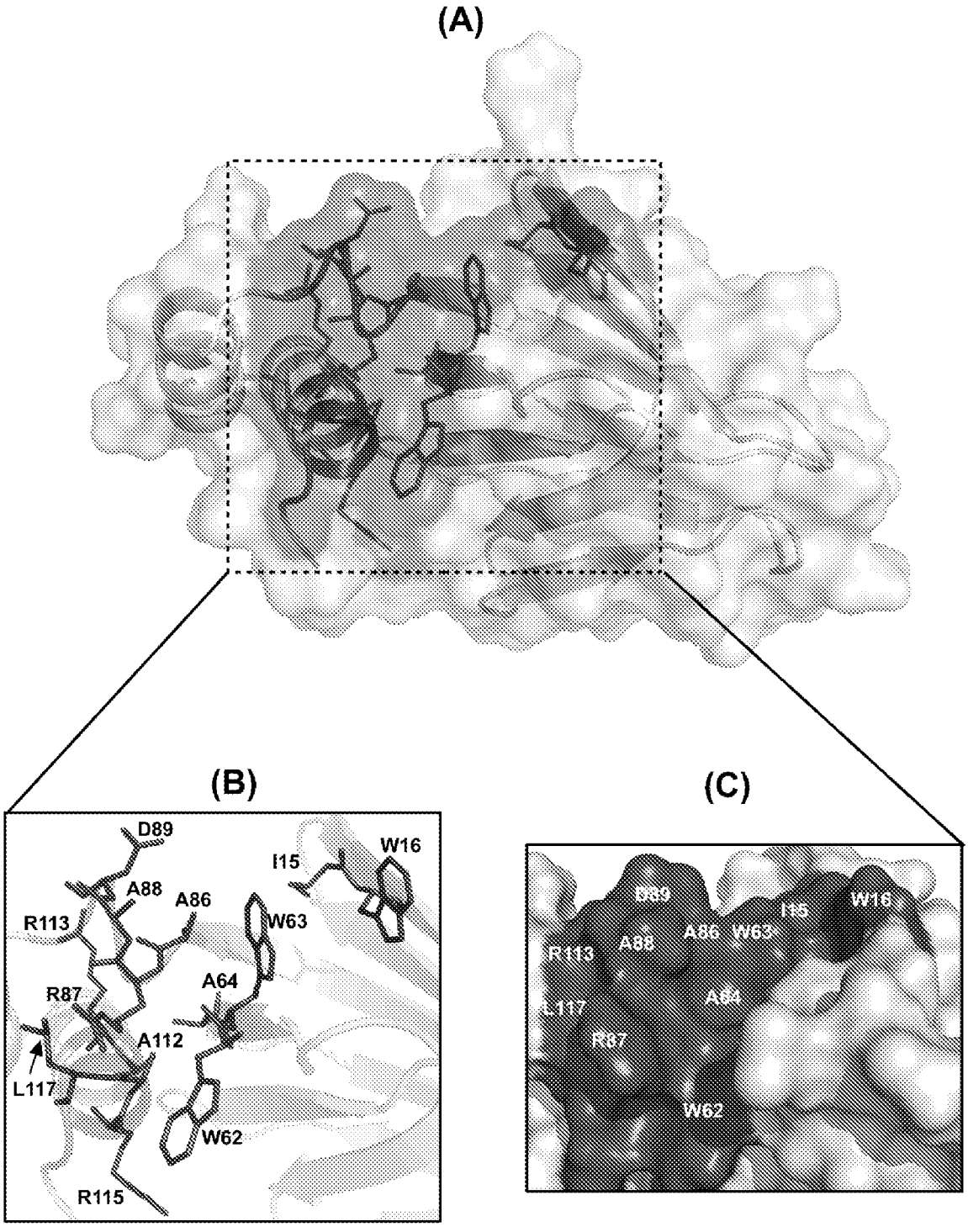

(A)
(B)
D89
W16
I15
A88
A86
R113
W63
A64
R87
A112
L117
W62
R115
(C)
D89
W16
I15
A88
A86
W63
R113
A64
L117
R87
W62

FIG. 5

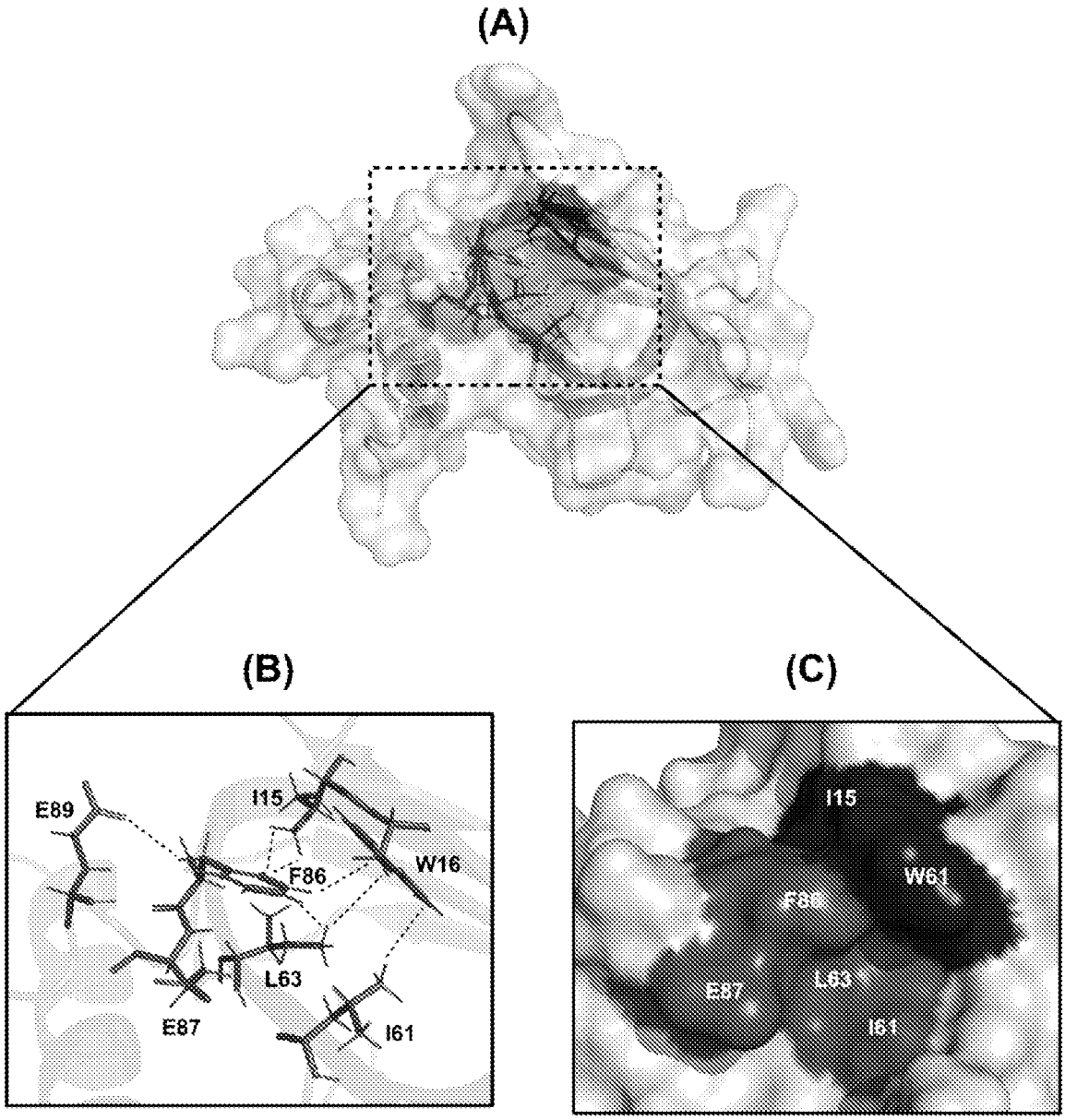


FIG. 6

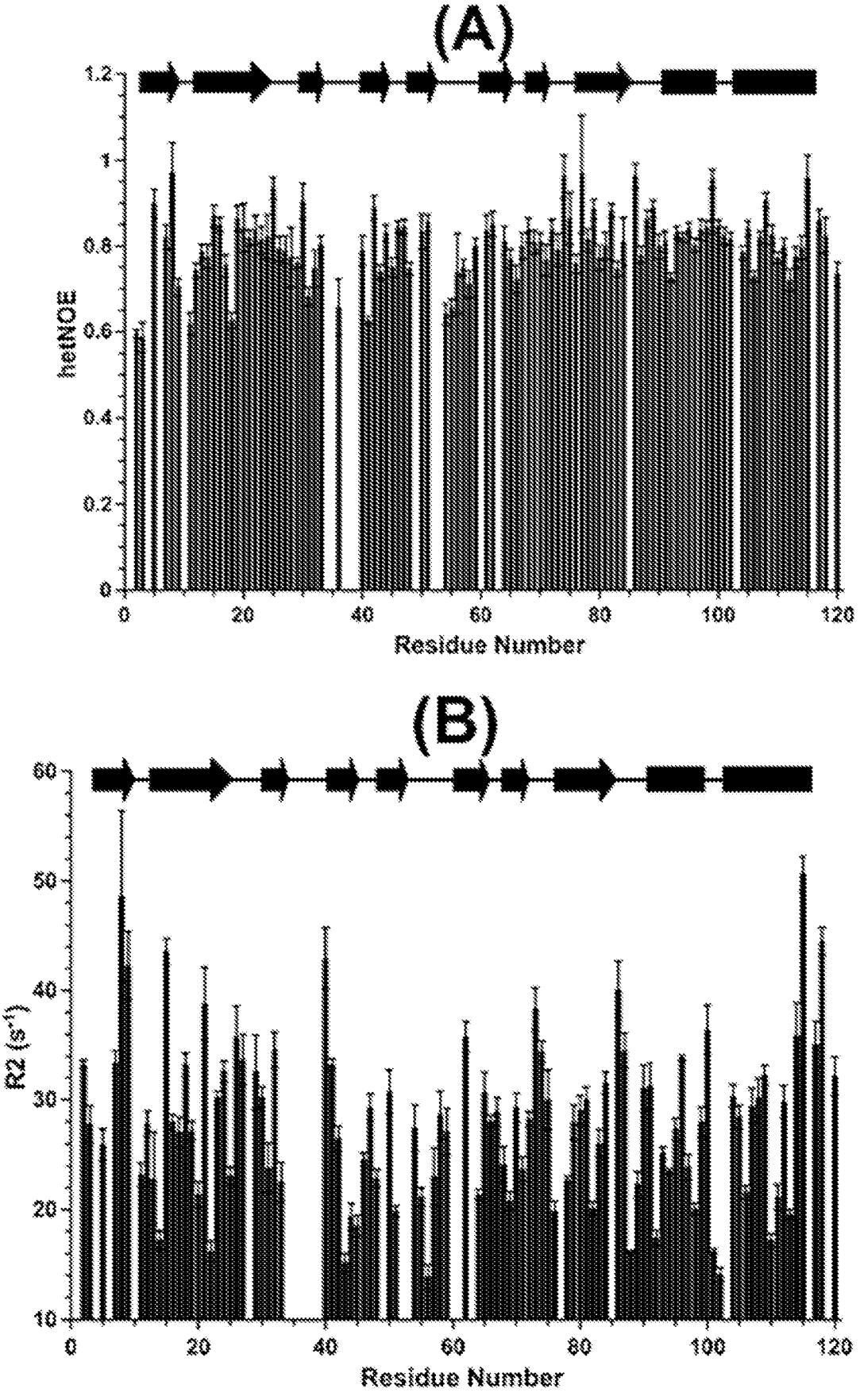

(A)
hetNOE
1.2
1
0.8
0.6
0.4
0.2
0
0
20
40
60
80
100
120
Residue Number
(B)
R2 (s-1)
60
50
40
30
20
10
0
20
40
60
80
100
120
Residue Number

FIG. 7A-B

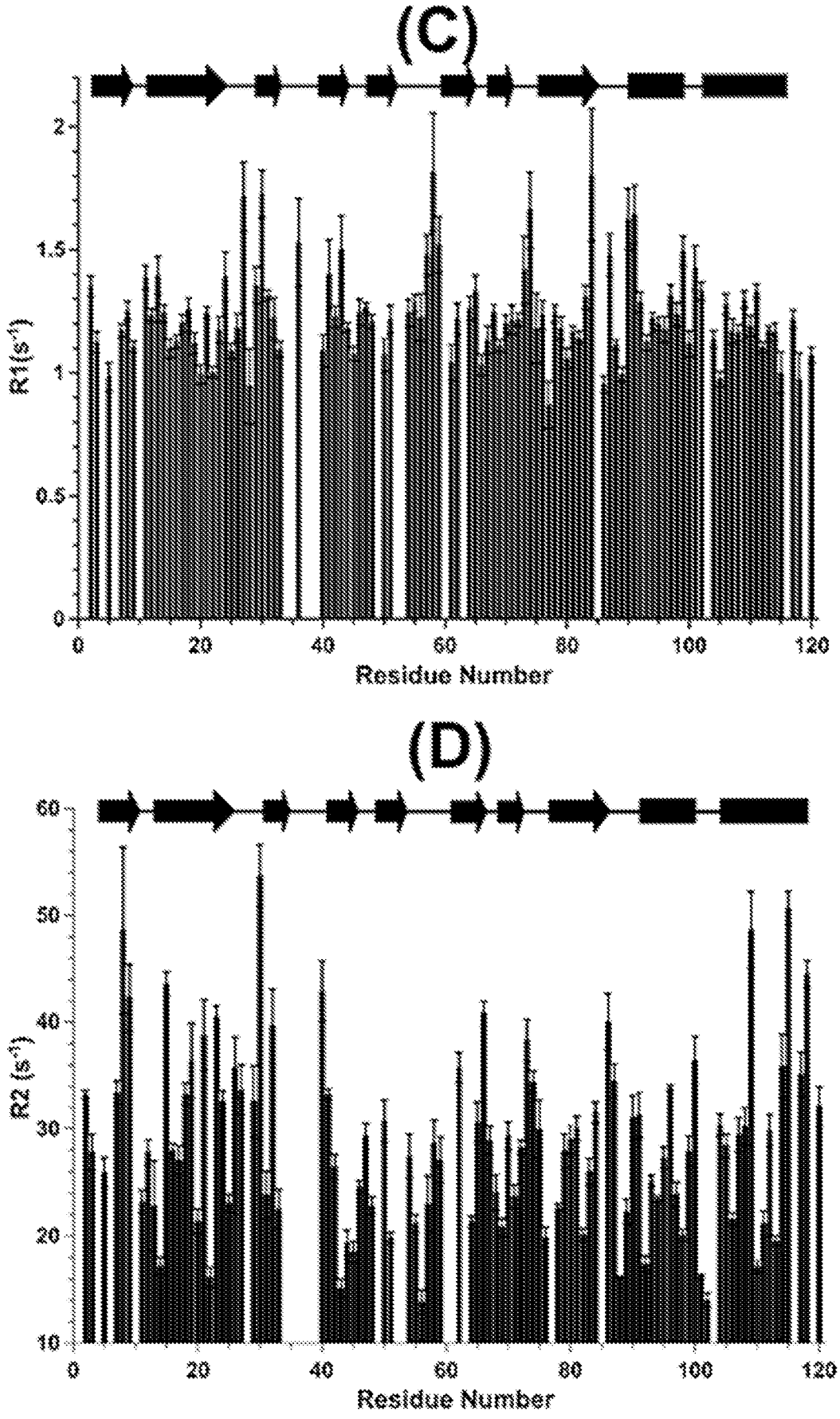

(C)
R1(s-1)
0
0.5
1
1.5
2
0
20
40
60
80
100
120
Residue Number
(D)
R2 (s-1)
10
20
30
40
50
60
0
20
40
60
80
100
120
Residue Number

FIG. 7C-D

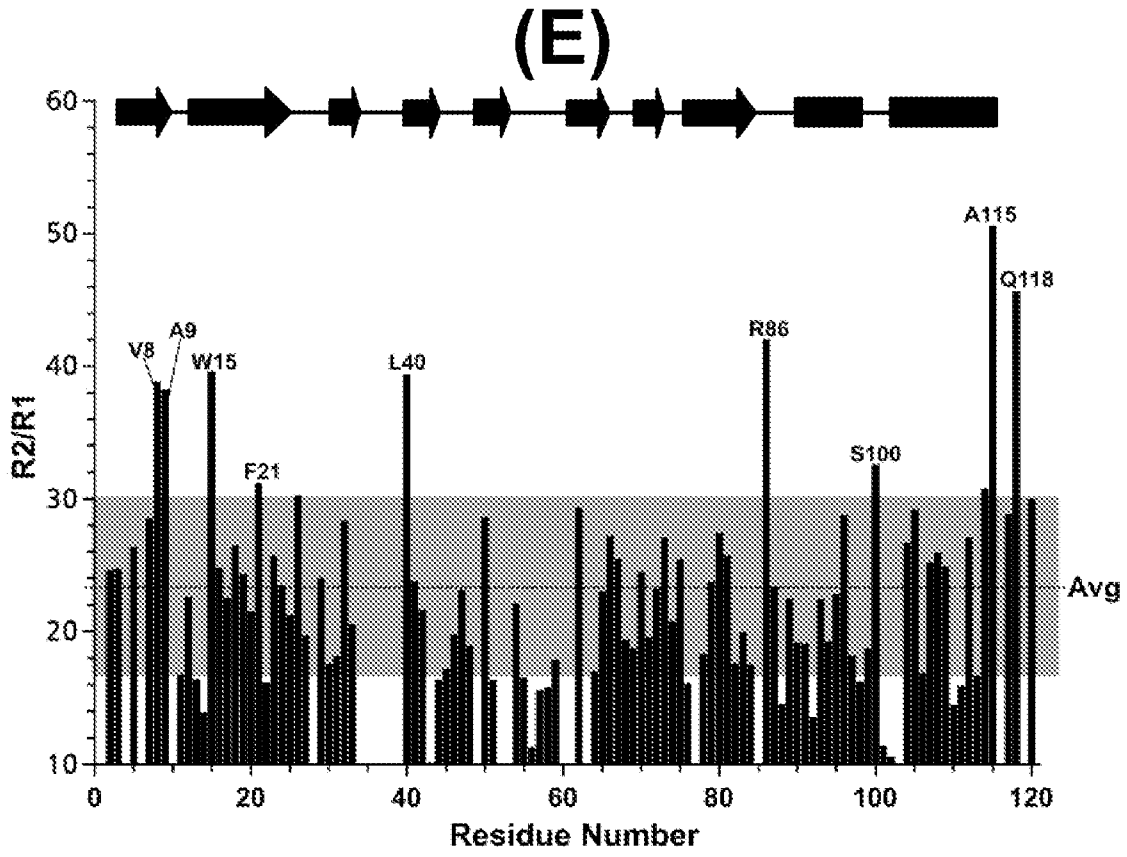

(E)
60
50
40
30
20
10
R2/R1
0
20
40
60
80
100
120
Residue Number
V8
A9
W15
F21
L40
R86
S100
A115
Q118
Avg

FIG. 7E

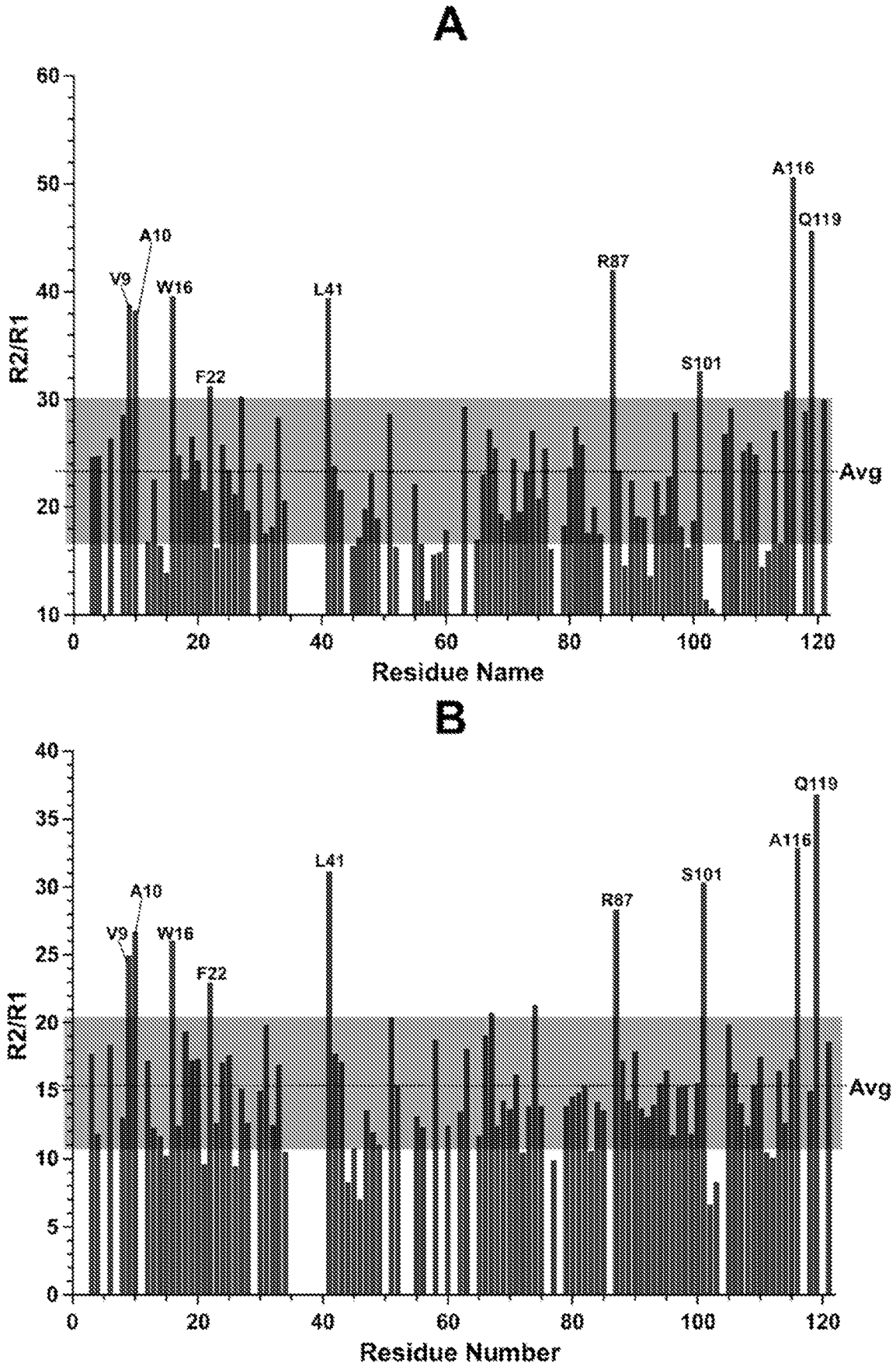

A
R2/R1
Residue Name
Avg
A10
V9
W16
F22
L41
R87
S101
A116
Q119
B
R2/R1
Residue Number
Avg
A10
V9
W16
F22
L41
R87
S101
A116
Q119

FIG. 8

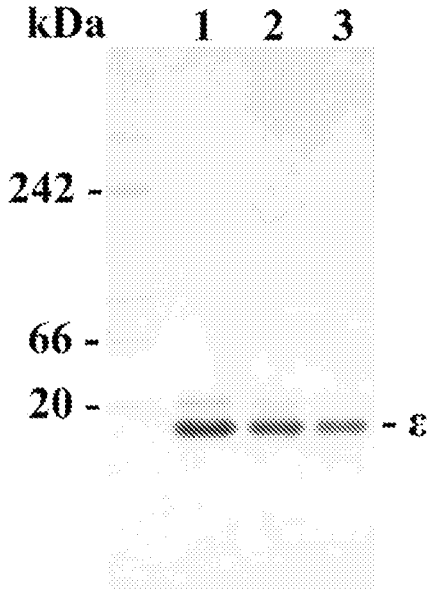

kDa
1
2
3
242 -
66 -
20 -
- ε

FIG. 9

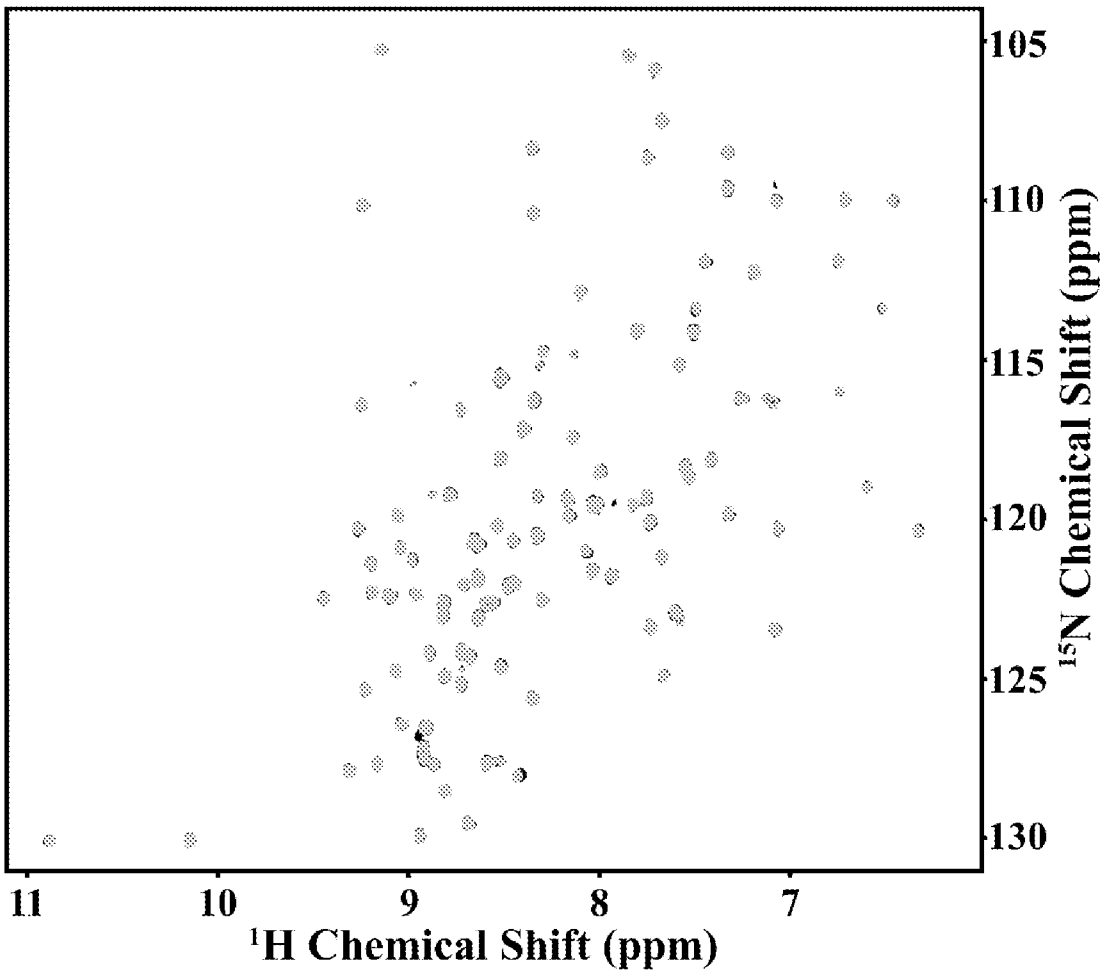

105
110
115
120
125
130
11
10
9
8
7
^{15}N Chemical Shift (ppm)
^{1}H Chemical Shift (ppm)

FIG. 10

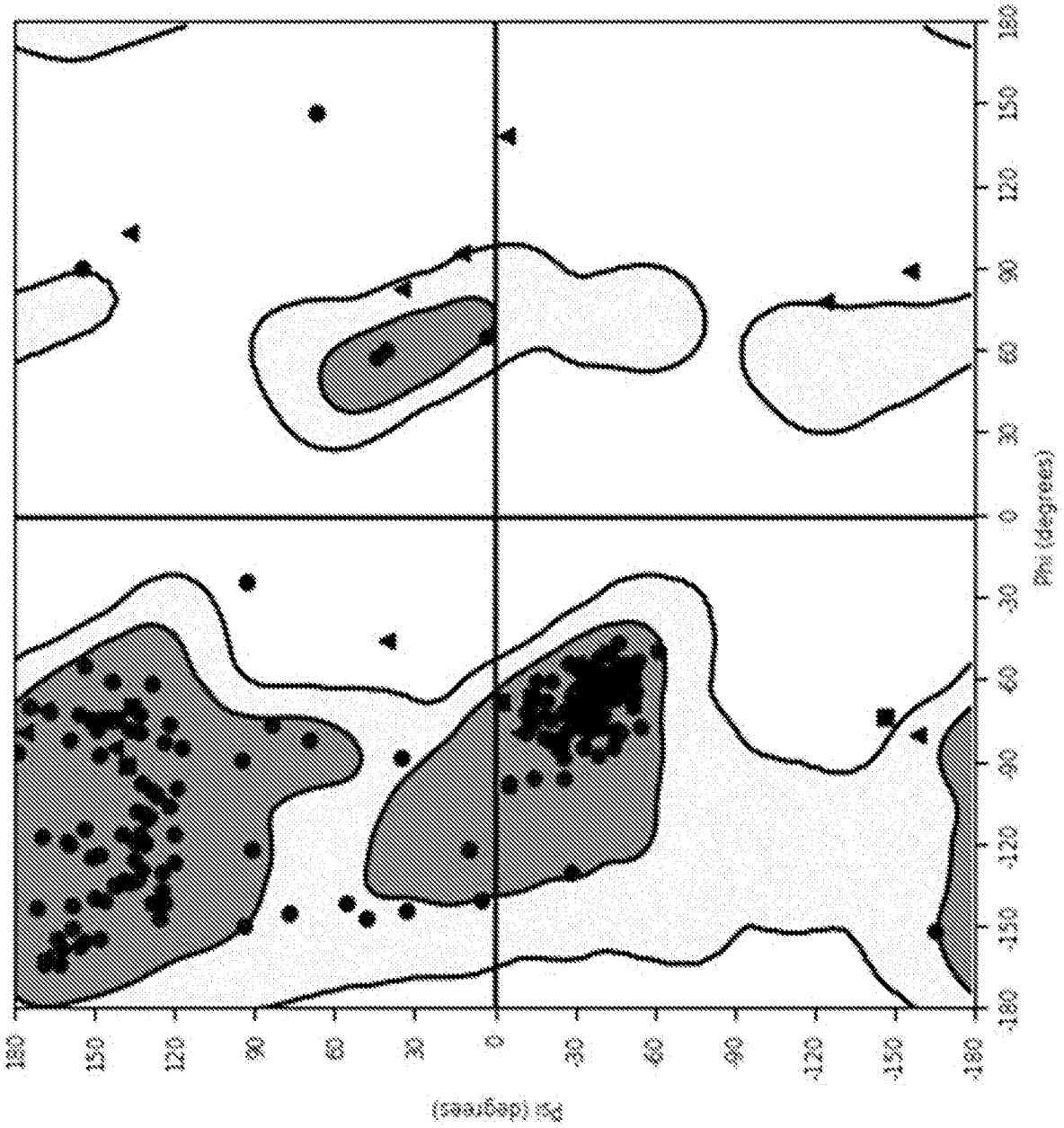

Phi (degrees)
Psi (degrees)
180
150
120
90
60
30
0
-30
-60
-90
-120
-150
-180

FIG. 11

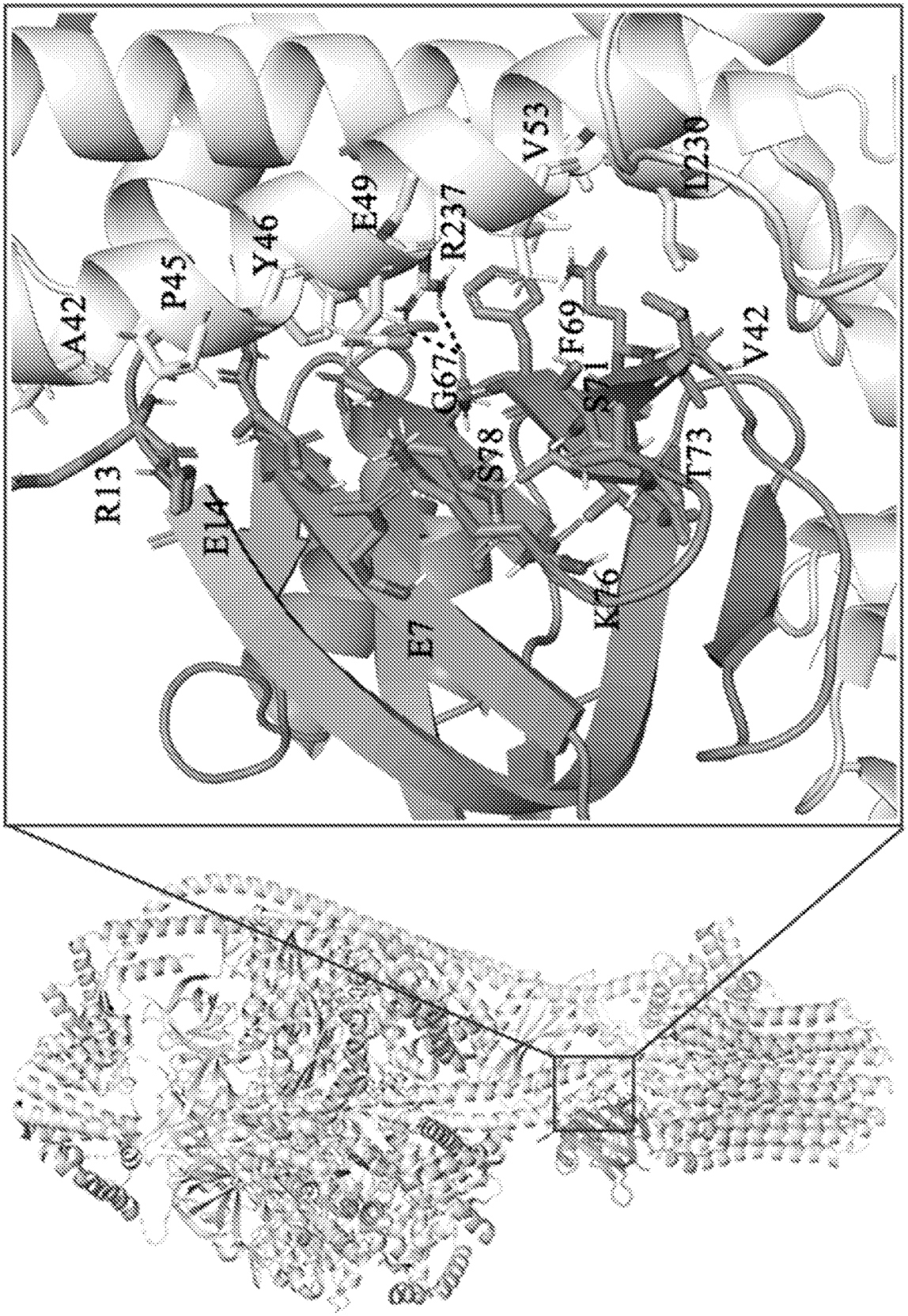
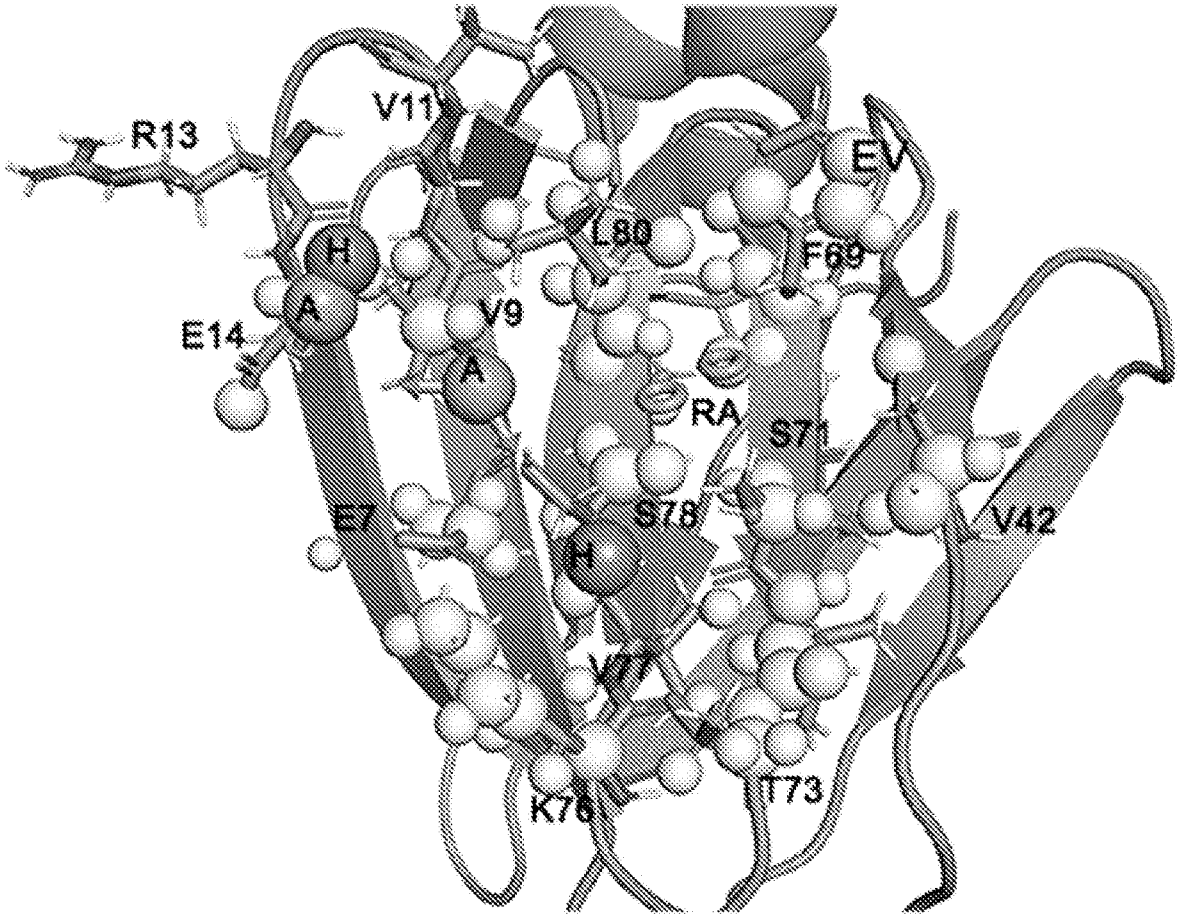

A42
P45
Y46
E49
R237
V53
L238
R13
E14
E7
G67
S78
S71
F69
T73
V42
K76

FIG. 12

A


R13
V11
EV
L80
F69
H
A
E14
V9
A
RA
S71
E7
S78
V42
H
V77
T73
K76

B

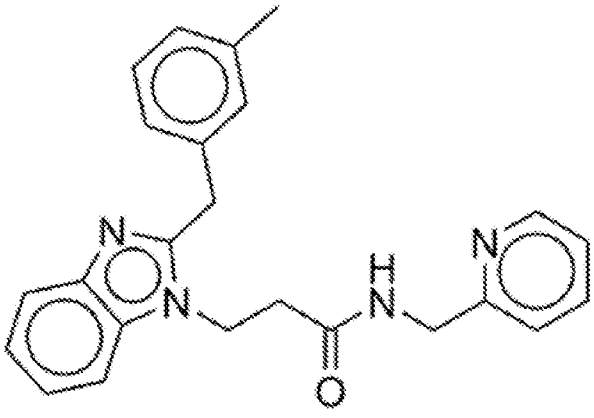

N
N
H
N
N
O

FIG. 13A-B

C

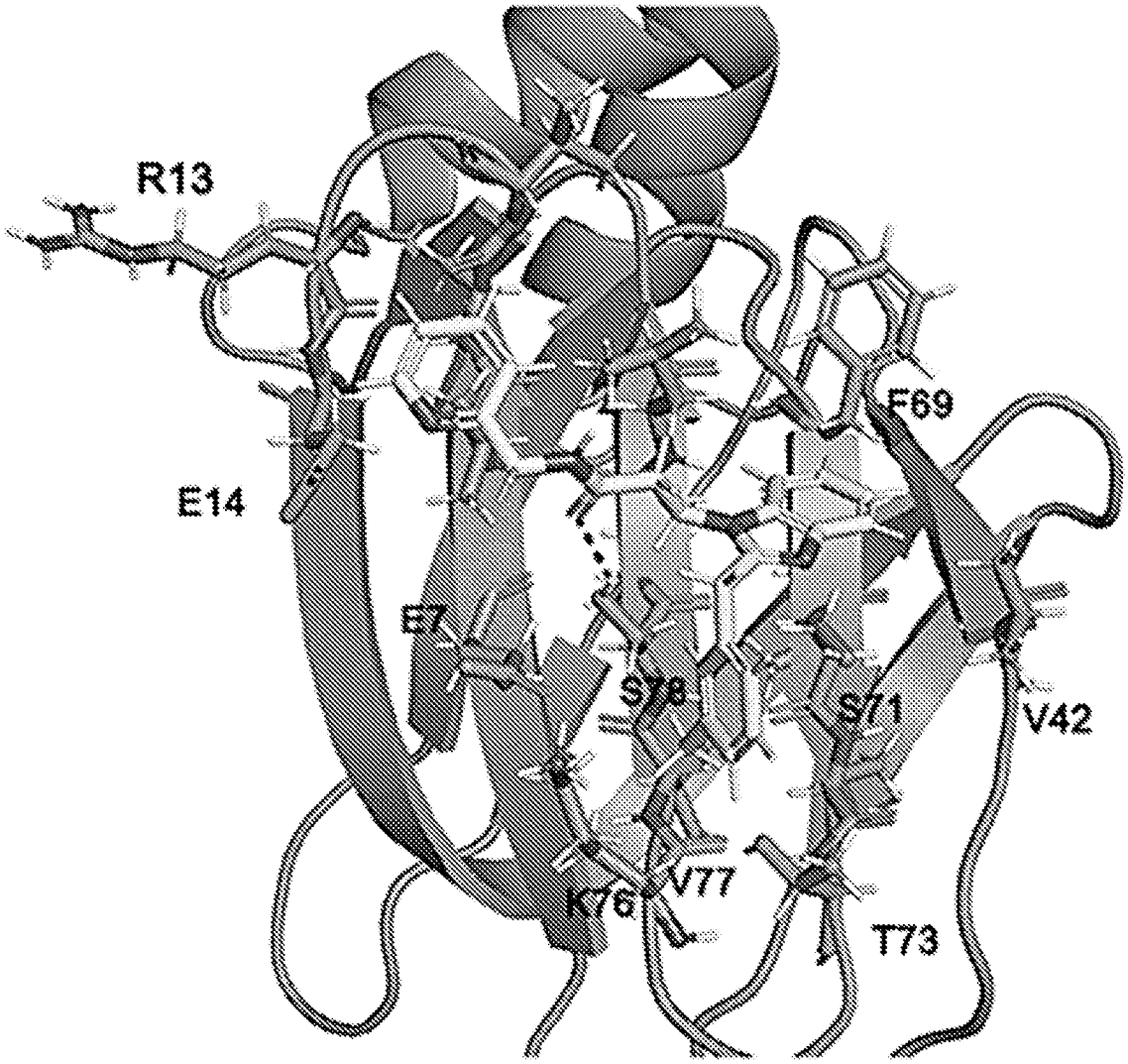


FIG. 13C

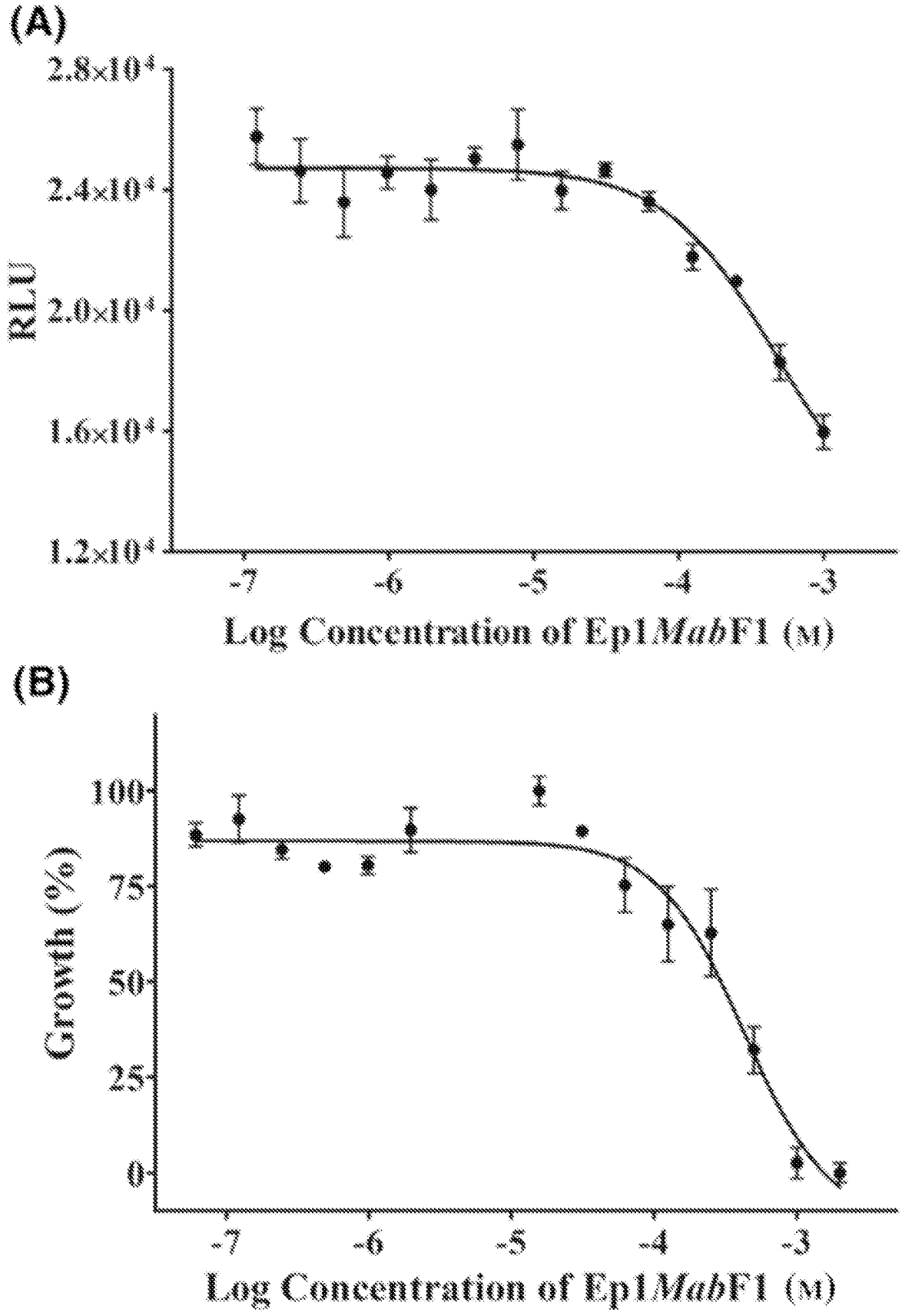

(A)
2.8×10⁴
2.4×10⁴
2.0×10⁴
1.6×10⁴
1.2×10⁴
RLU
-7
-6
-5
-4
-3
Log Concentration of Ep1MabF1 (M)
(B)
100
75
50
25
0
Growth (%)
-7
-6
-5
-4
-3
Log Concentration of Ep1MabF1 (M)

FIG. 14A-B

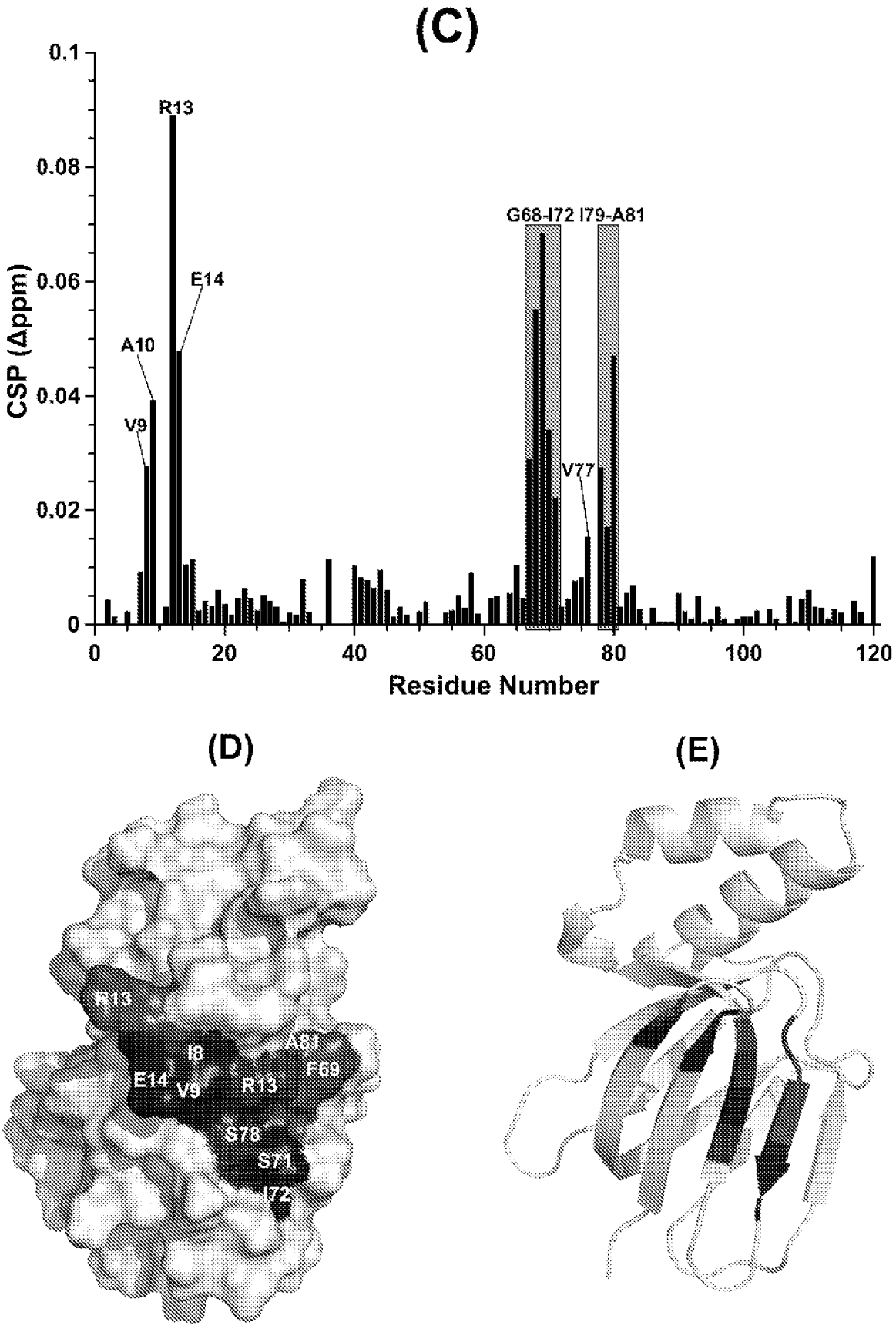

(C)
CSP (Δppm)
0.1
0.08
0.06
0.04
0.02
0
R13
E14
A10
V9
G68-I72
I79-A81
V77
0
20
40
60
80
100
120
Residue Number
(D)
(E)
R13
I8
A81
E14
V9
R13
F69
S78
S71
I72

FIG. 14C-E

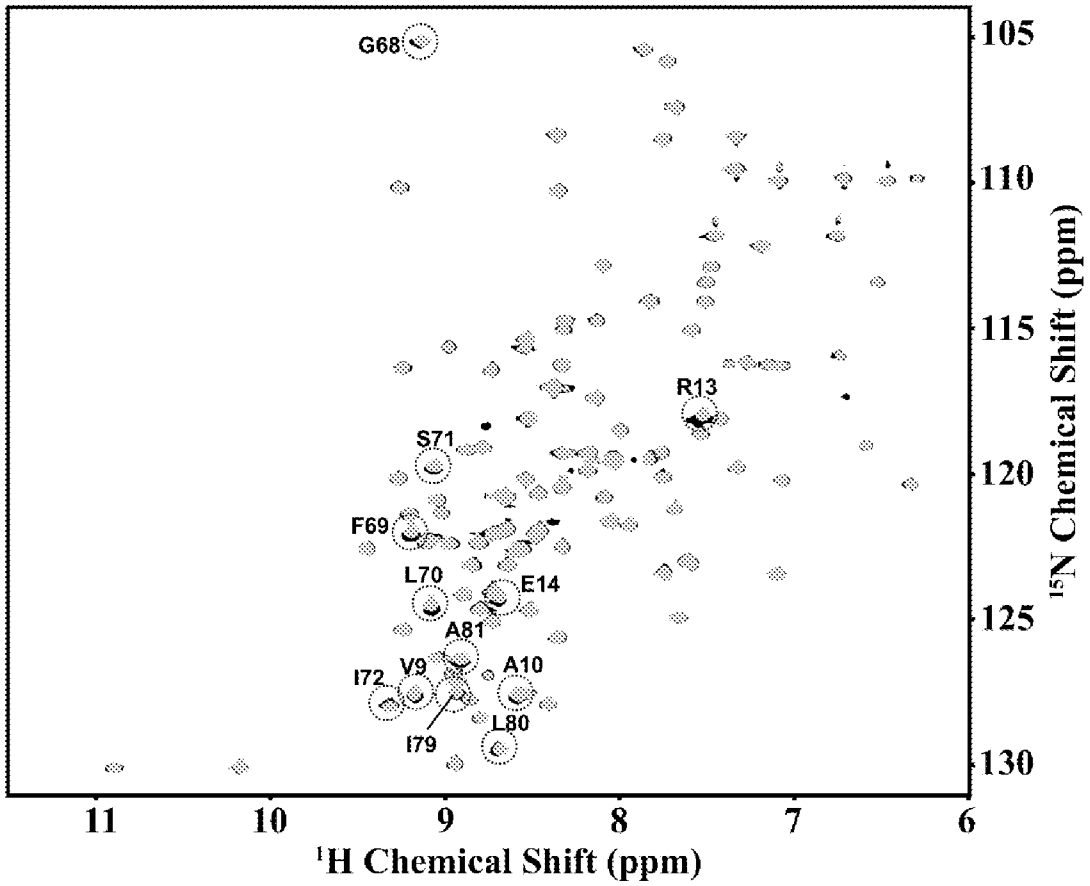

G68
R13
S71
F69
L70
E14
A81
V9
A10
I72
L80
I79
105
110
115
120
125
130
11
10
9
8
7
6
^{15}N Chemical Shift (ppm)
^{1}H Chemical Shift (ppm)

FIG. 15

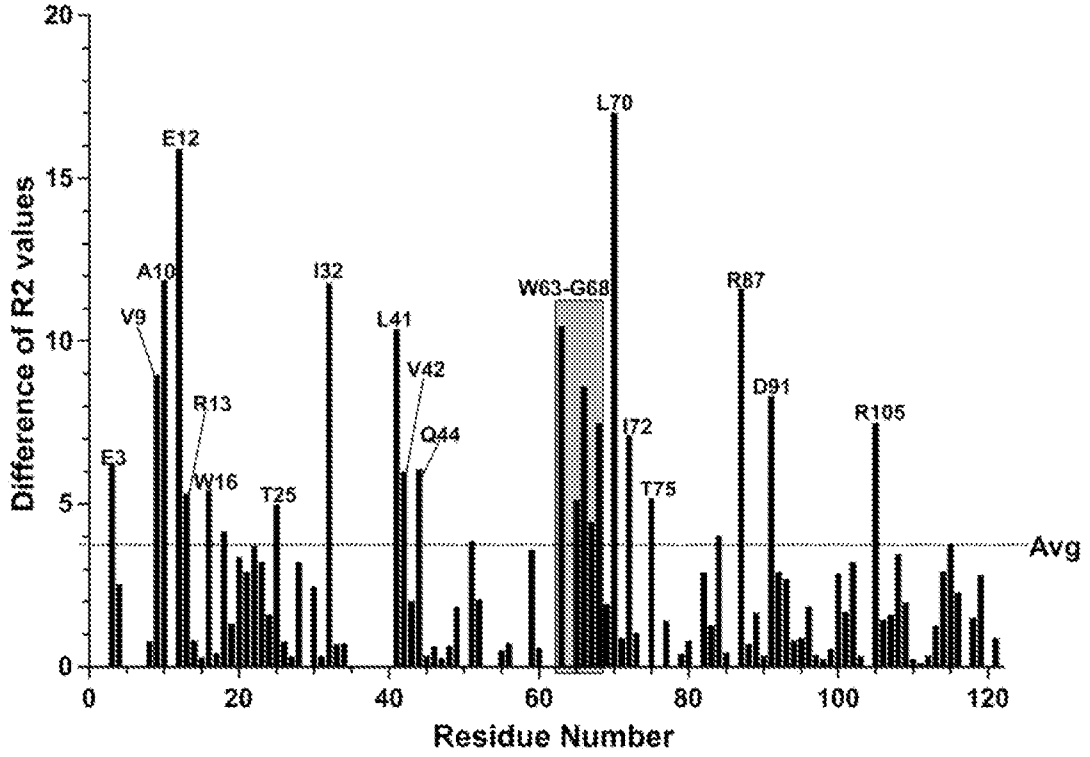

Difference of R2 values
Residue Number
L70
E12
A10
I32
W63-G68
R87
V9
L41
V42
D91
R13
Q44
I72
R105
E3
W16
T25
T75
Avg
0
5
10
15
20
0
20
40
60
80
100
120

FIG. 16