FIG. 1

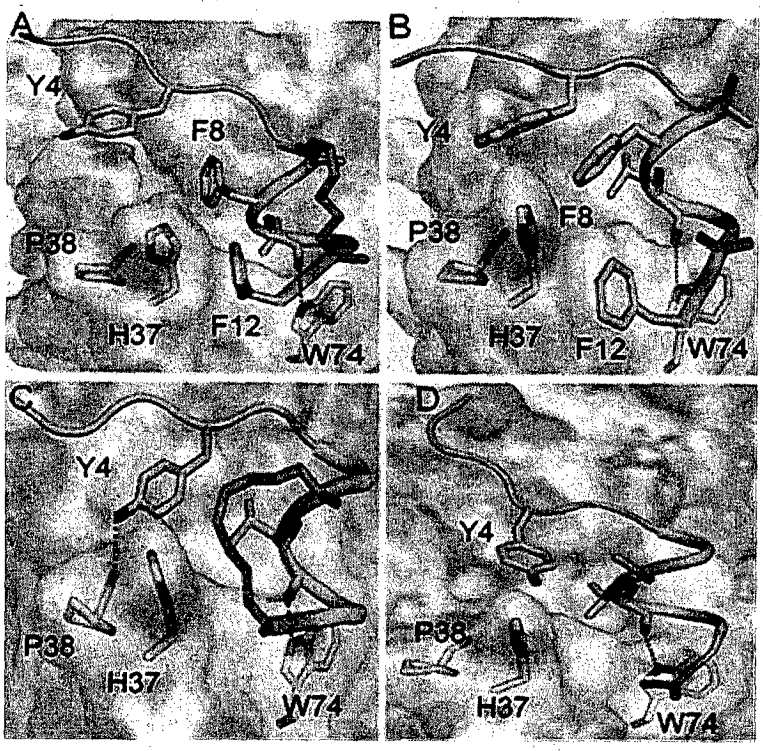

A
Y4
F8
P38
H37
F12
W74
B
Y4
F8
P38
H37
F12
W74
C
Y4
P38
H37
W74
D
Y4
P38
H37
W74

FIG. 2

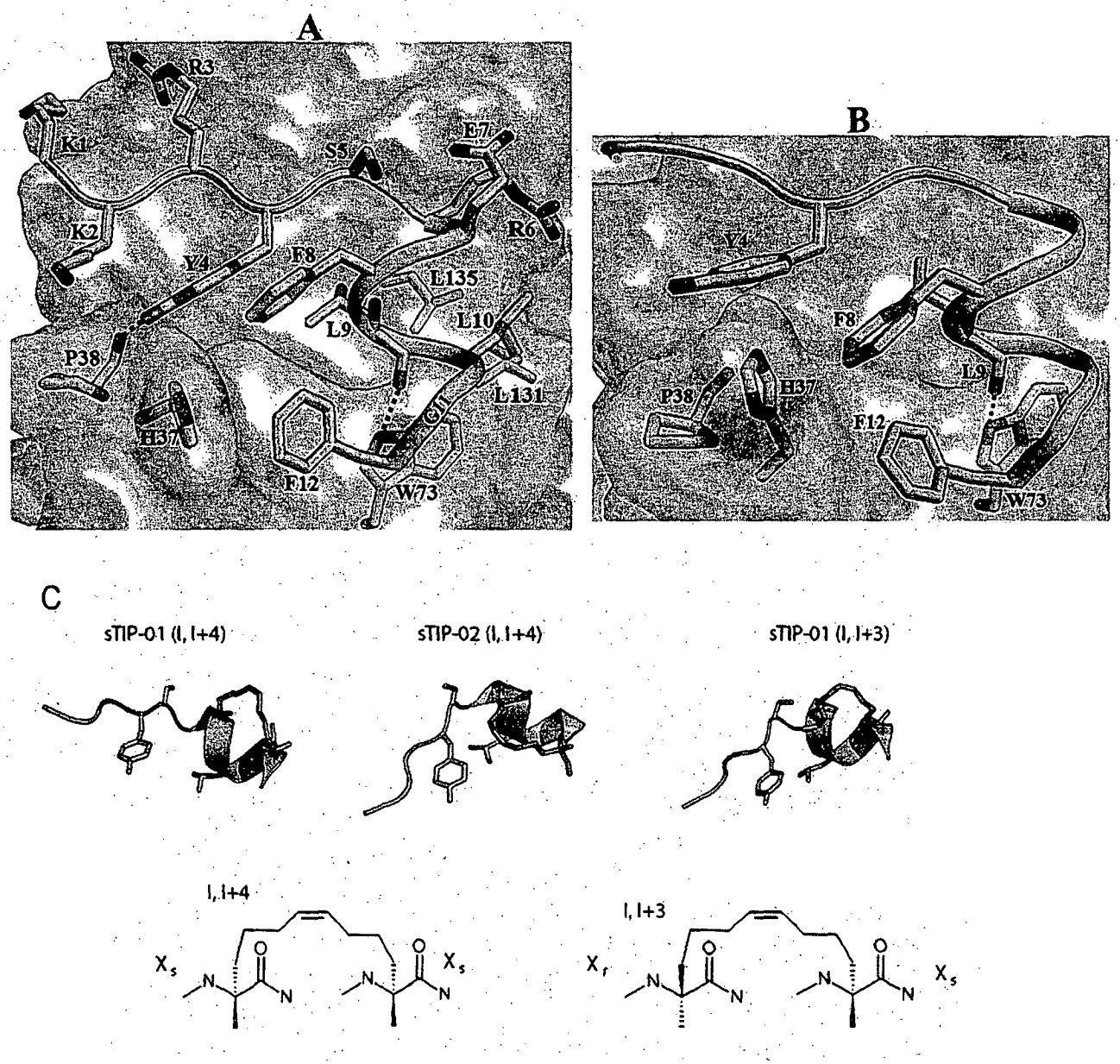

A
R3
K1
S5
E7
K2
R6
Y4
F8
L135
L9
L10
P38
L131
H37
G11
F12
W73
B
Y4
F8
L9
P38
H37
F12
W73
C
sTIP-01 (I, I+4)
sTIP-02 (I, I+4)
sTIP-01 (I, I+3)
I, I+4
I, I+3

FIG. 3

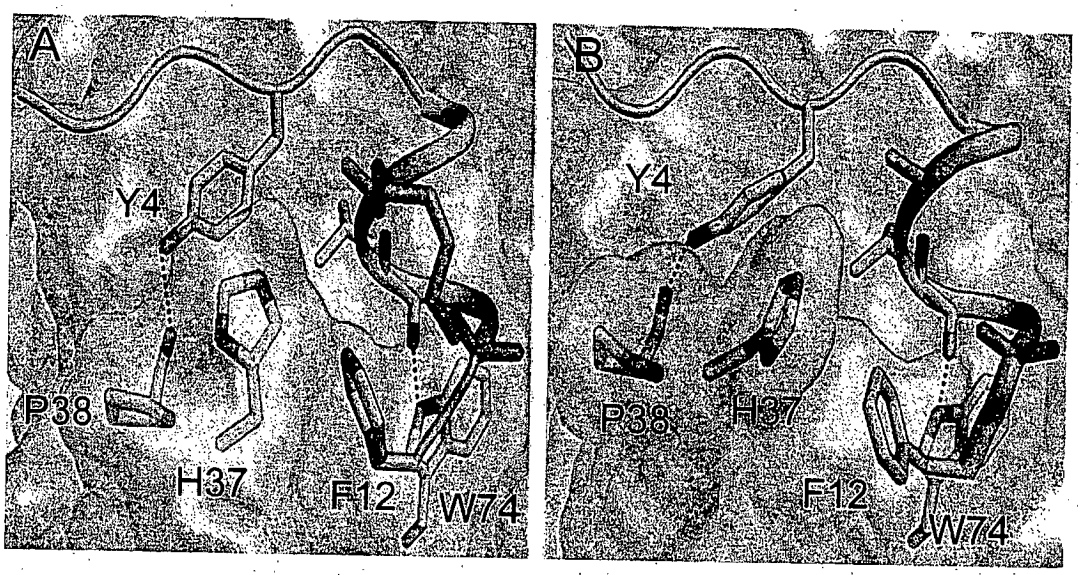


FIG. 4

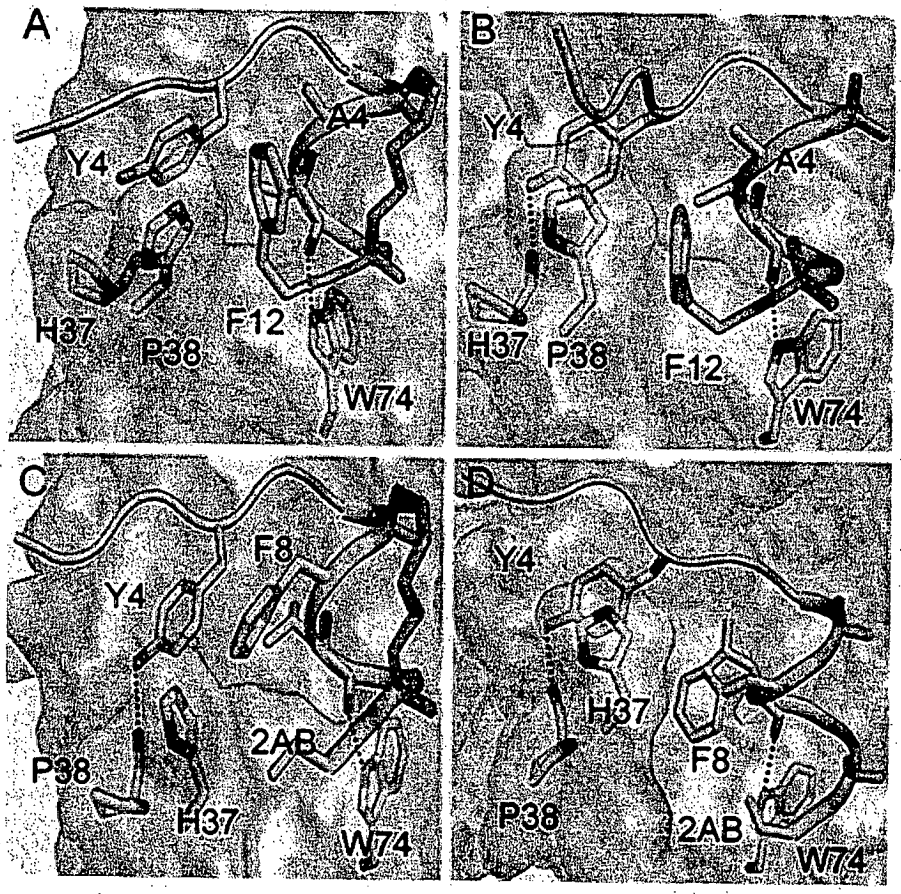

A
Y4
A4
H37
P38
F12
W74
B
Y4
A4
H37
P38
F12
W74
C
F8
Y4
P38
2AB
H37
W74
D
Y4
H37
F8
P38
2AB
W74

FIG. 5

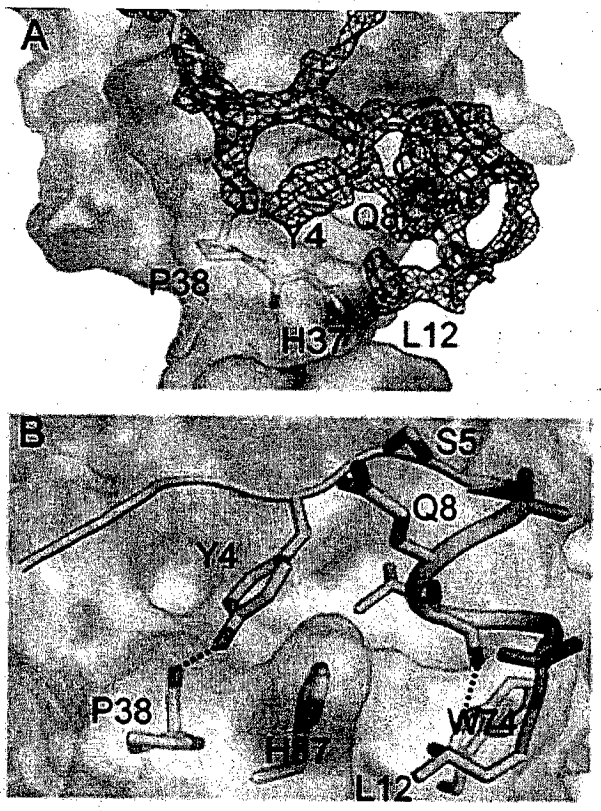


FIG. 6

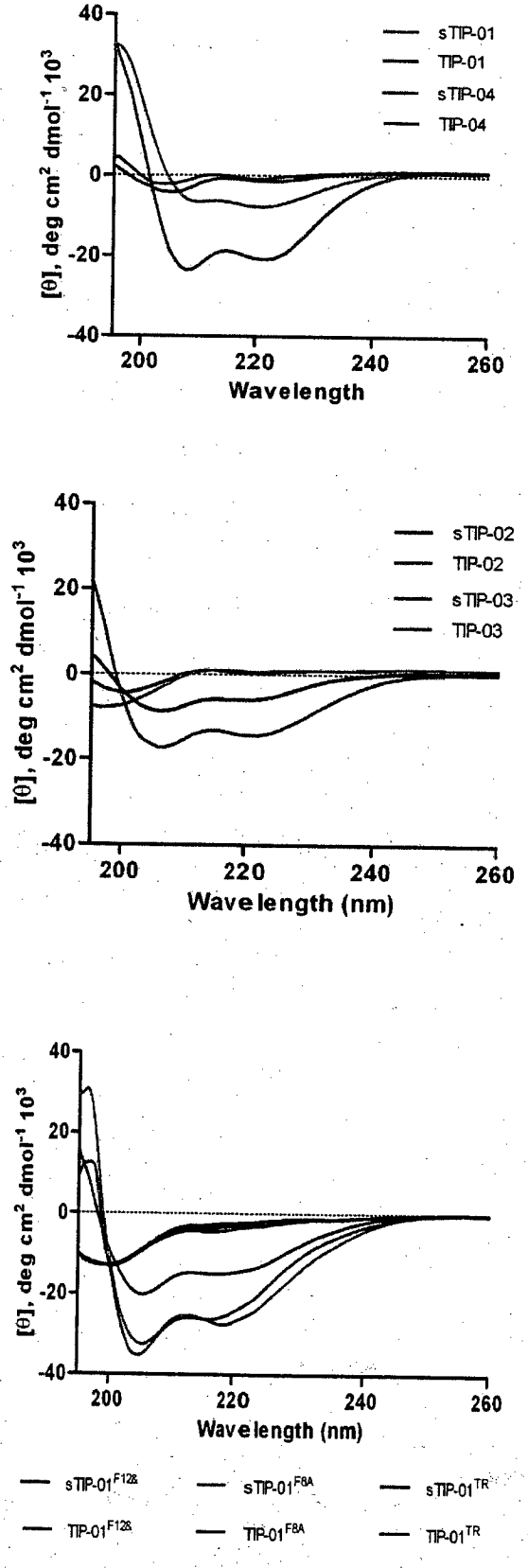

40
20
0
-20
-40
200
220
240
260
Wavelength
[θ], deg cm² dmol⁻¹ 10³
sTIP-01
TIP-01
sTIP-04
TIP-04
Wavelength (nm)
sTIP-02
TIP-02
sTIP-03
TIP-03
sTIP-01F12&
TIP-01F12&
sTIP-01F8A
TIP-01F8A
sTIP-01TR
TIP-01TR

FIG. 7

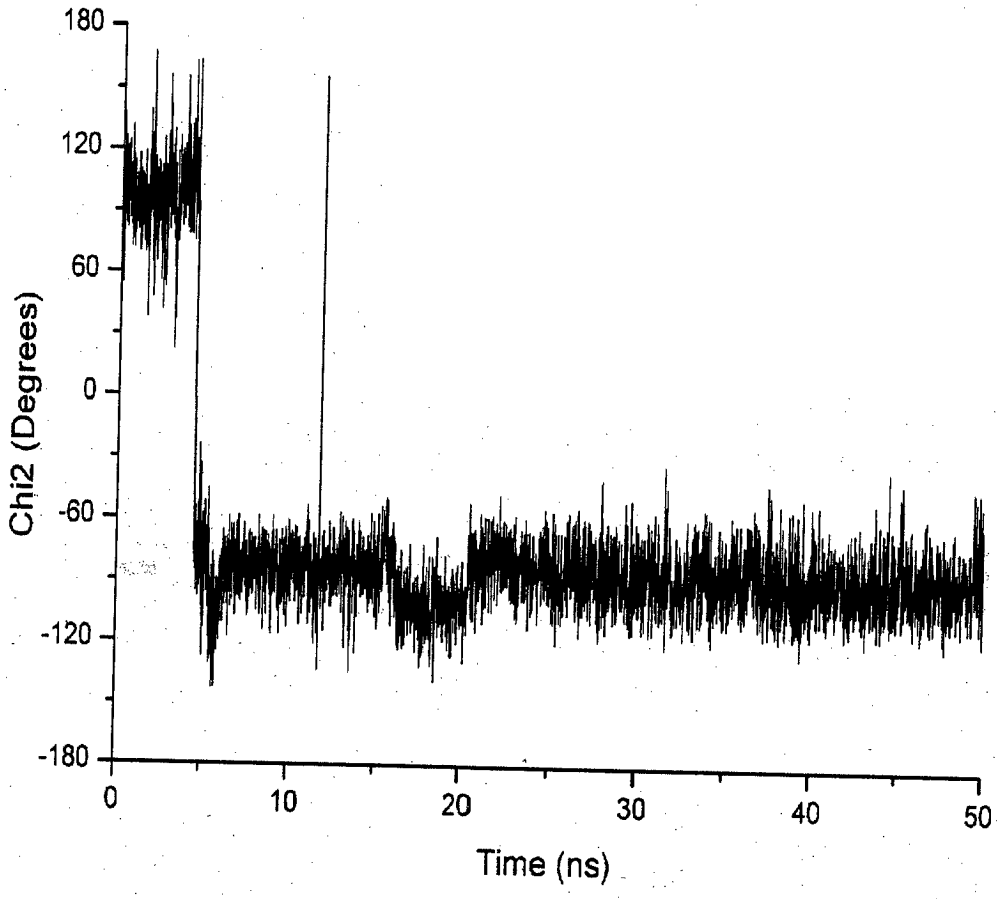


FIG. 8

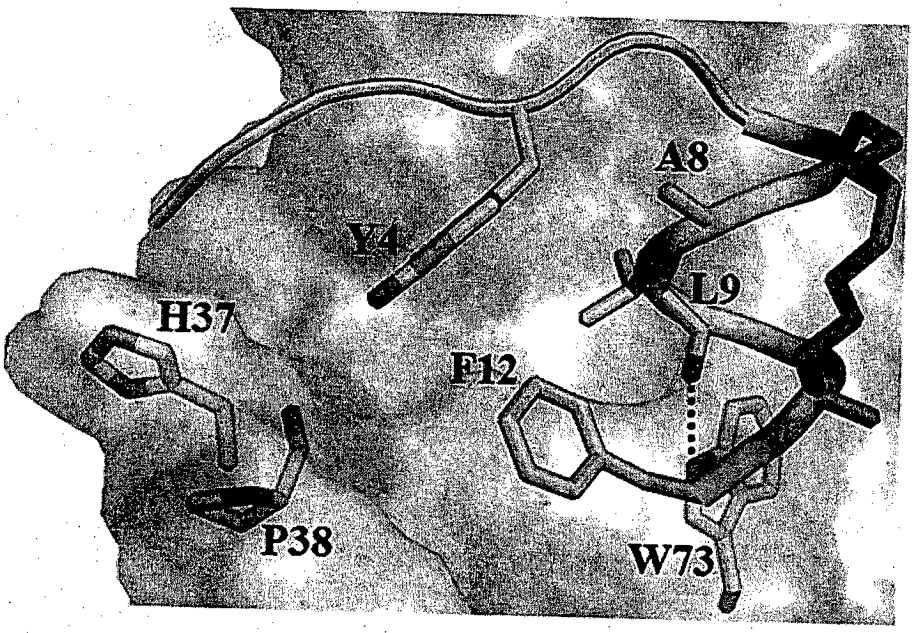


FIG. 9

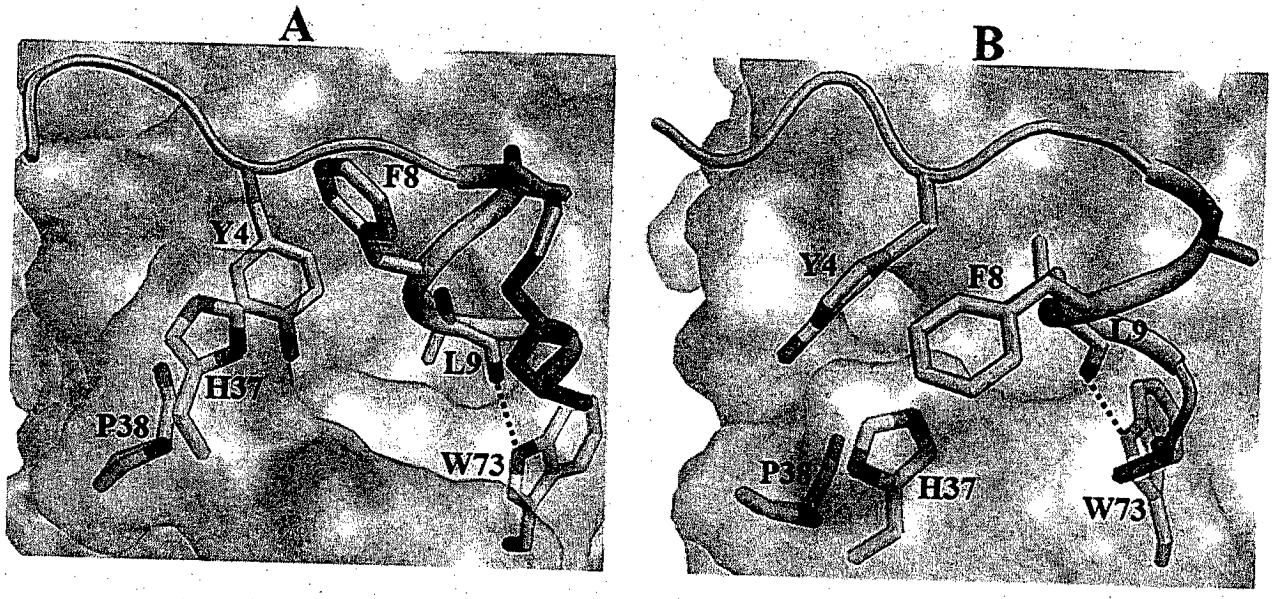


FIG. 10

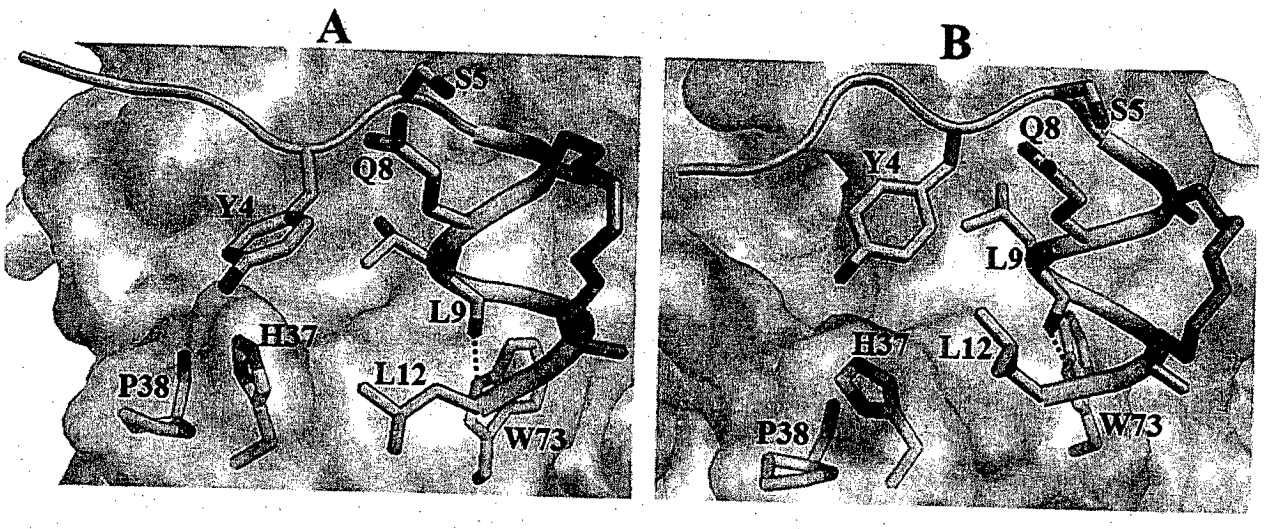


FIG. 11

Residue[d]	eIF4G^{D5S}	sTIP-01	TIP-01	sTIP-02	TIP-02	sTIP-03	TIP-03	sTIP-01^{F8A}	TIP-01^{F8A}	sTIP-01$^{F12\&}$	TIP-01$^{F12\&}$	sTIP-01^{Tr}	TIP-01^{Tr}	sTIP-04	TIP-04
K1	-0.2±1.3	-0.4±2.2	-0.4±2.1	-0.8±1.8	-1.1±1.4	0.0±1.9	0.3±1.6	-0.6±1.7	-0.5±1.7	-0.3±1.5	-0.2±2.0	-0.0±1.1	-0.3±1.7	0.2±1.5	-0.4±1.3
K2	-0.5±1.8	0.2±0.9	-0.4±1.5	-1.2±1.7	-3.2±2.8	-0.0±1.2	-1.6±1.2	-1.7±1.6	-0.0±1.5	-0.4±1.5	-0.3±1.4	-0.2±1.3	-0.7±1.6	-0.1±1.2	-0.3±1.3
R3	-6.4±2.9	-5.6±3.5	-4.0±2.6	-3.6±2.1	-6.5±2.8	-3.3±2.9	-5.1±3.4	-6.5±2.5	-5.4±3.7	-3.2±1.9	-3.8±2.4	-7.1±3.3	-6.2±2.7	-4.6±2.8	-3.6±2.5
Y4	-2.0±1.4	-1.4±1.6	-2.9±1.4	-3.9±0.8	-2.4±0.8	-3.6±0.9	-2.7±1.0	-1.6±0.9	-5.3±1.8	-3.6±0.9	-4.1±1.1	-2.4±2.4	-1.5±0.9	-2.5±1.1	-2.3±1.1
S5	0.2±2.5	-0.1±0.7	0.3±0.3	0.2±0.3	0.4±0.3	0.4±0.4	0.5±0.4	0.1±0.3	-0.1±0.6	0.3±0.3	0.2±0.3	0.1±0.9	0.1±0.2	0.1±0.3	0.2±0.3
R6	-5.3±1.2	-6.1±2.1	-6.4±1.2	-5.8±1.5	-6.4±1.2	-6.3±1.4	-6.9±1.2	-5.9±1.3	-6.3±1.5	-6.1±1.2	-6.1±1.2	-5.2±1.9	-4.4±2.5	-5.7±1.2	-6.1±1.3
E7	0.0±0.2	[redacted]		0.1±0.2	-0.0±0.2	-0.1±0.2	-0.1±0.2	[redacted]							
F8	-0.3±0.4	-2.8±1.2	-0.5±0.5	[redacted]				***-0.1±0.3***	***0.2±0.2***	-0.9±0.4	-3.5±1.6	-1.7±1.3	-1.4±0.9	***0.3±0.3***	***0.5±0.4***
L9	-3.7±0.8	-5.0±0.8	-4.0±0.8	-4.3±0.7	-4.5±0.7	-4.9±0.8	-4.7±0.7	-4.6±0.8	-4.5±0.8	-4.4±0.7	-4.1±0.7	-4.4±0.9	-4.2±0.9	-4.1±0.8	-4.3±0.7
L10	-1.9±0.4	-1.1±0.5	-1.8±0.4	-2.1±0.5	-2.1±0.6	-1.7±0.5	-1.9±0.4	-2.0±0.7	-1.8±0.4	-1.8±0.4	-1.9±0.5	-1.5±0.5	-2.7±0.9	-1.8±0.5	-1.7±0.4
G11	0.1±0.1	[redacted]		0.2±0.2	0.2±0.3	[redacted]									
F12	-3.6±0.8	-2.7±0.9	-4.0±0.8	[redacted]		-2.7±1.1	-4.1±1.7	-2.7±1.4	-3.3±1.1	***-1.7±0.6***	***-3.8±1.0***			***-2.6±0.9***	***-2.7±0.7***

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FIG. 12A

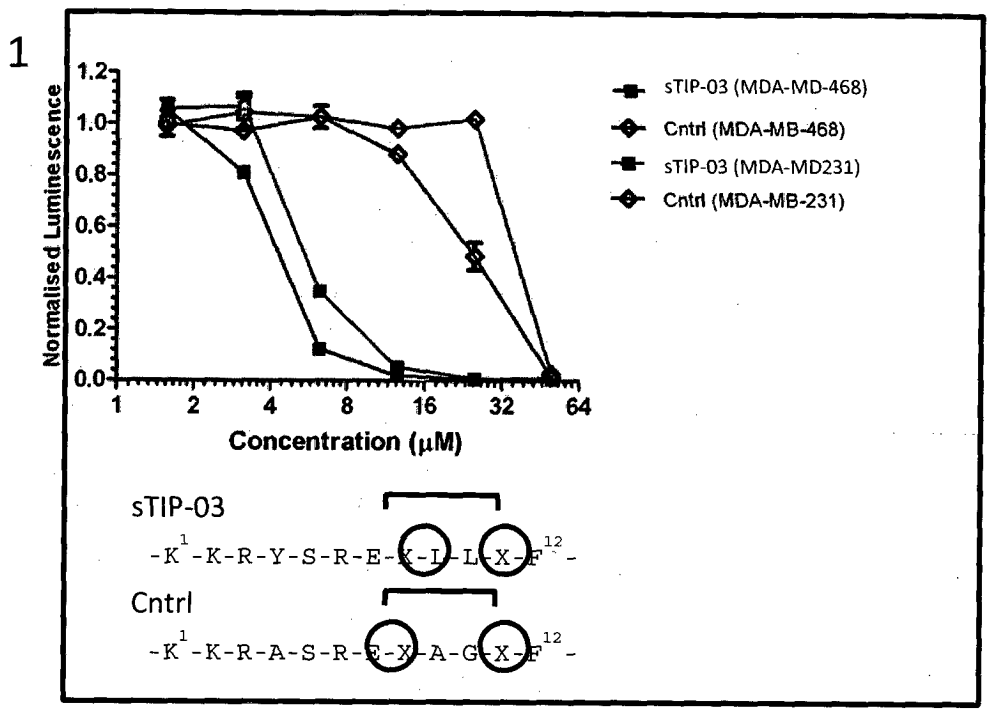
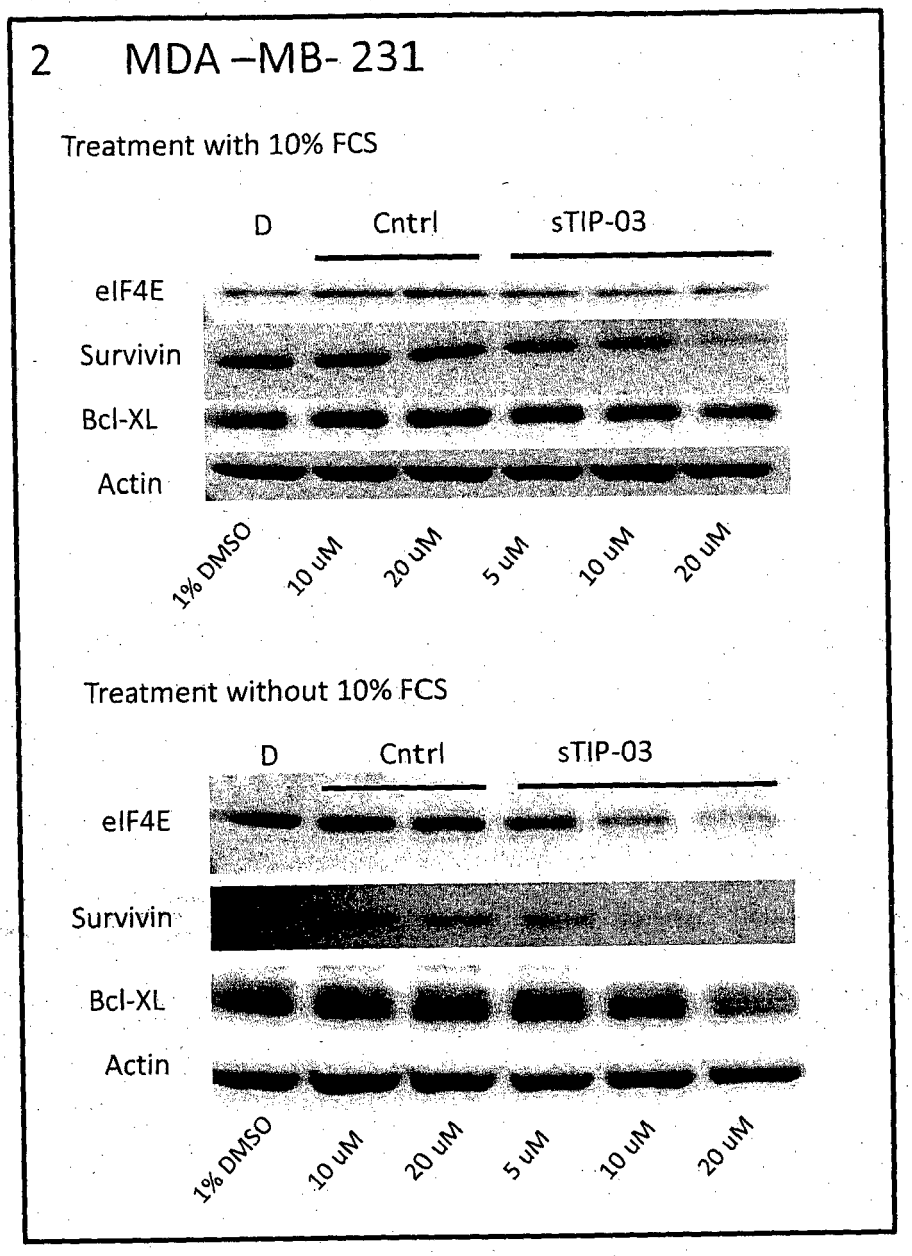

1
Normalised Luminescence
1.2
1.0
0.8
0.6
0.4
0.2
0.0
1
2
4
8
16
32
64
Concentration (μM)
sTIP-03 (MDA-MD-468)
Cntrl (MDA-MB-468)
sTIP-03 (MDA-MD231)
Cntrl (MDA-MB-231)
sTIP-03
-K[1]-K-R-Y-S-R-E-X-I-L-X-F[12]-
Cntrl
-K[1]-K-R-A-S-R-E-X-A-G-X-F[12]-

FIG. 12B


2 MDA –MB- 231
Treatment with 10% FCS
D
Cntrl
sTIP-03
eIF4E
Survivin
Bcl-XL
Actin
1% DMSO
10 uM
20 uM
5 uM
10 uM
20 uM
Treatment without 10% FCS
D
Cntrl
sTIP-03
eIF4E
Survivin
Bcl-XL
Actin
1% DMSO
10 uM
20 uM
5 uM
10 uM
20 uM