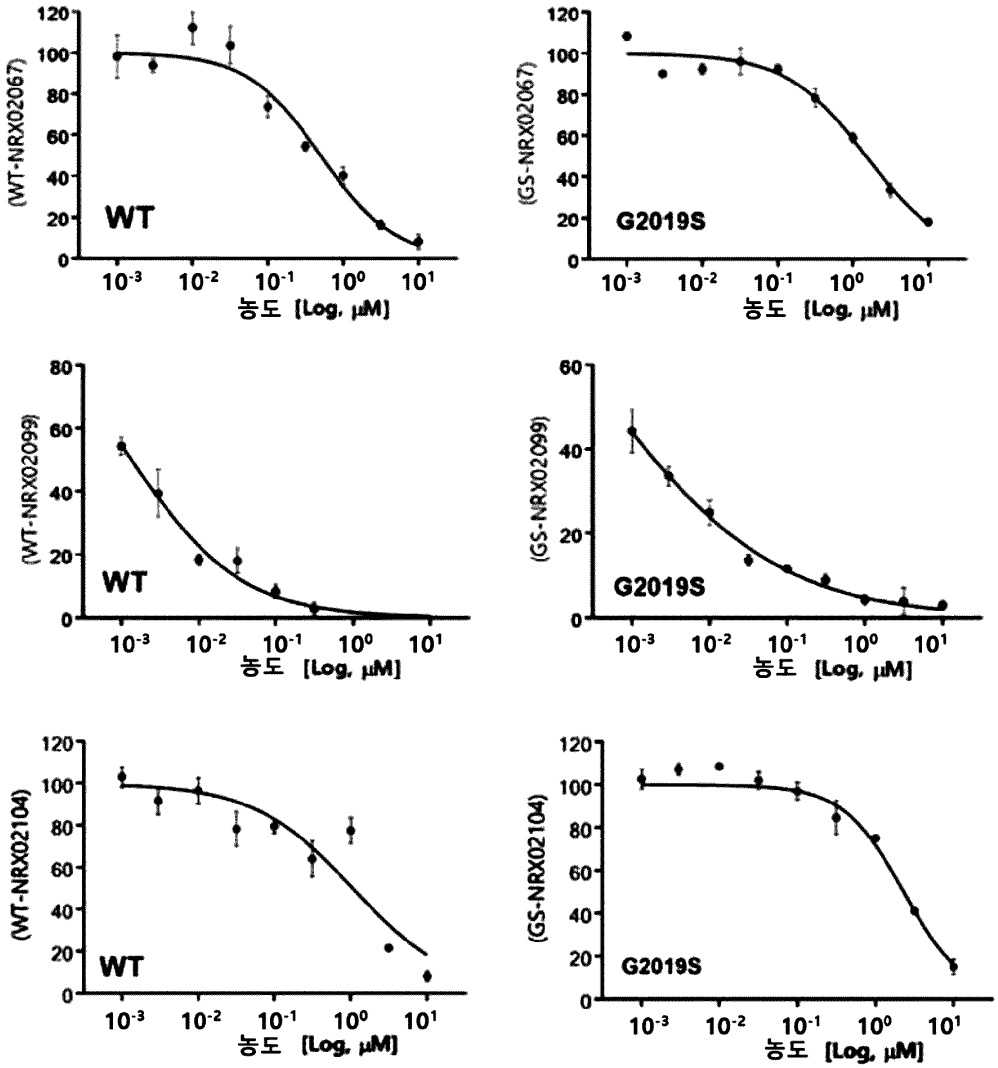
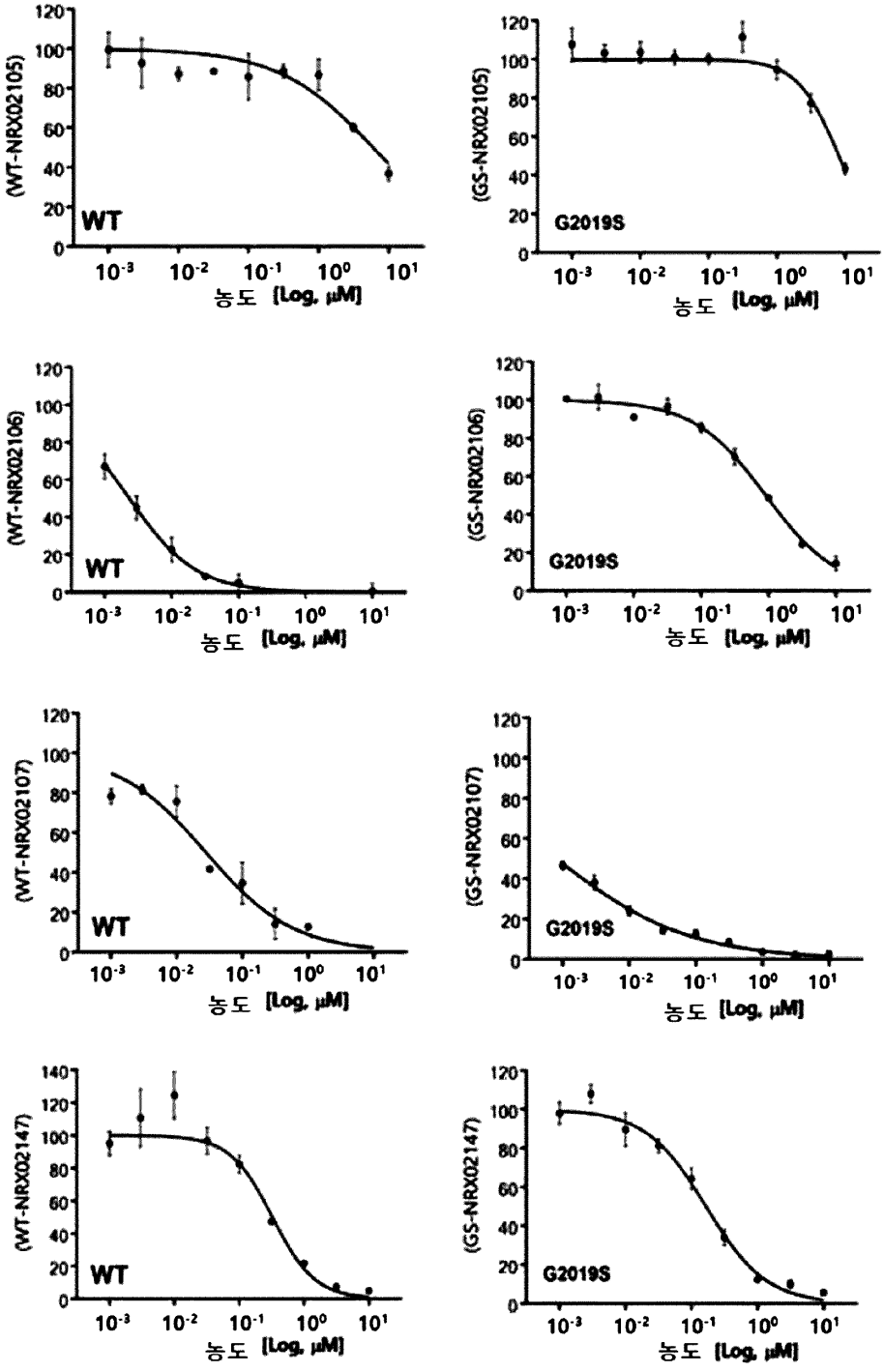
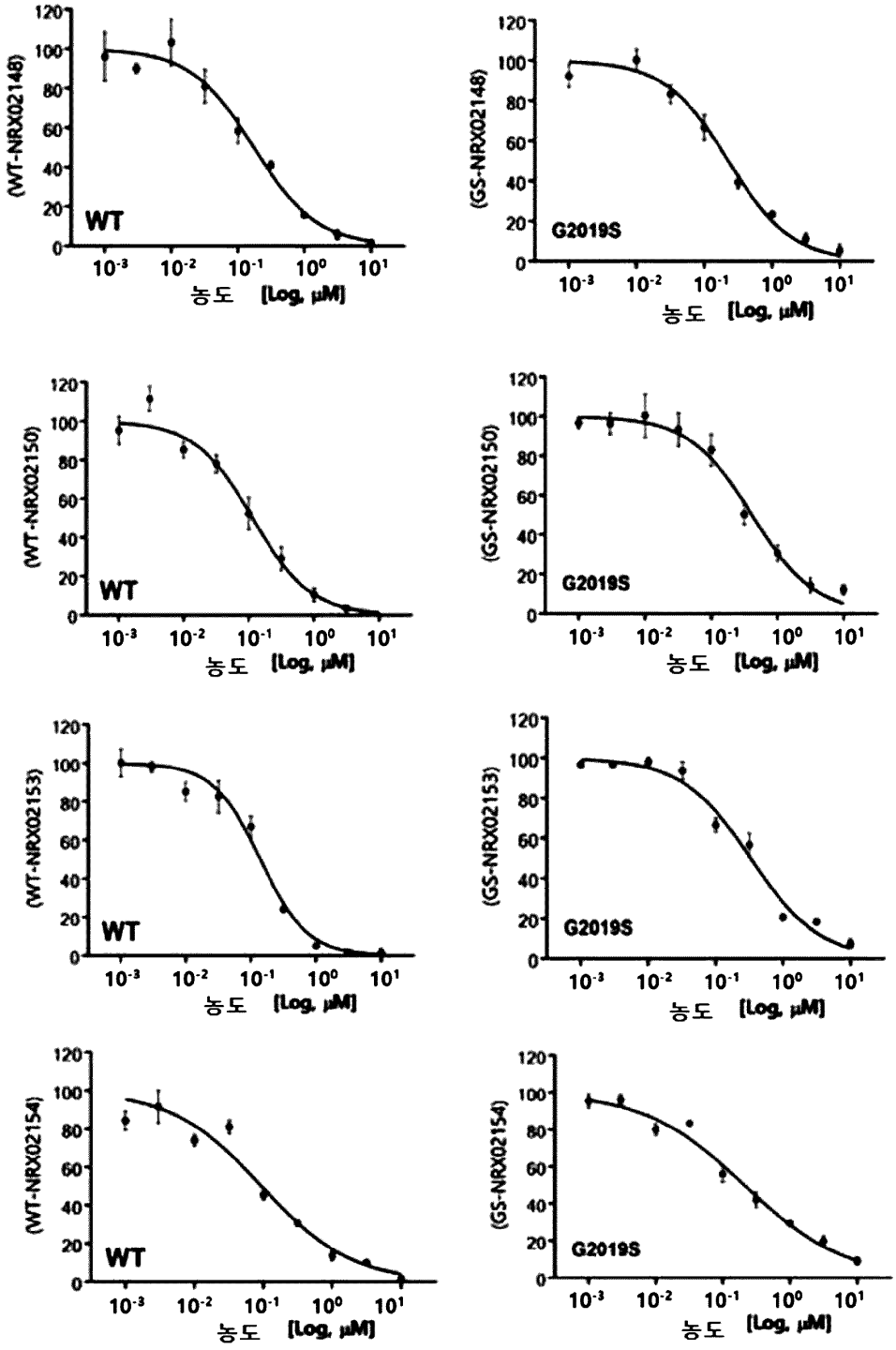
[도1a]


(WT-NRX02067)
WT
농도 [Log, μM]
(GS-NRX02067)
G2019S
농도 [Log, μM]
(WT-NRX02099)
WT
농도 [Log, μM]
(GS-NRX02099)
G2019S
농도 [Log, μM]
(WT-NRX02104)
WT
농도 [Log, μM]
(GS-NRX02104)
G2019S
농도 [Log, μM]

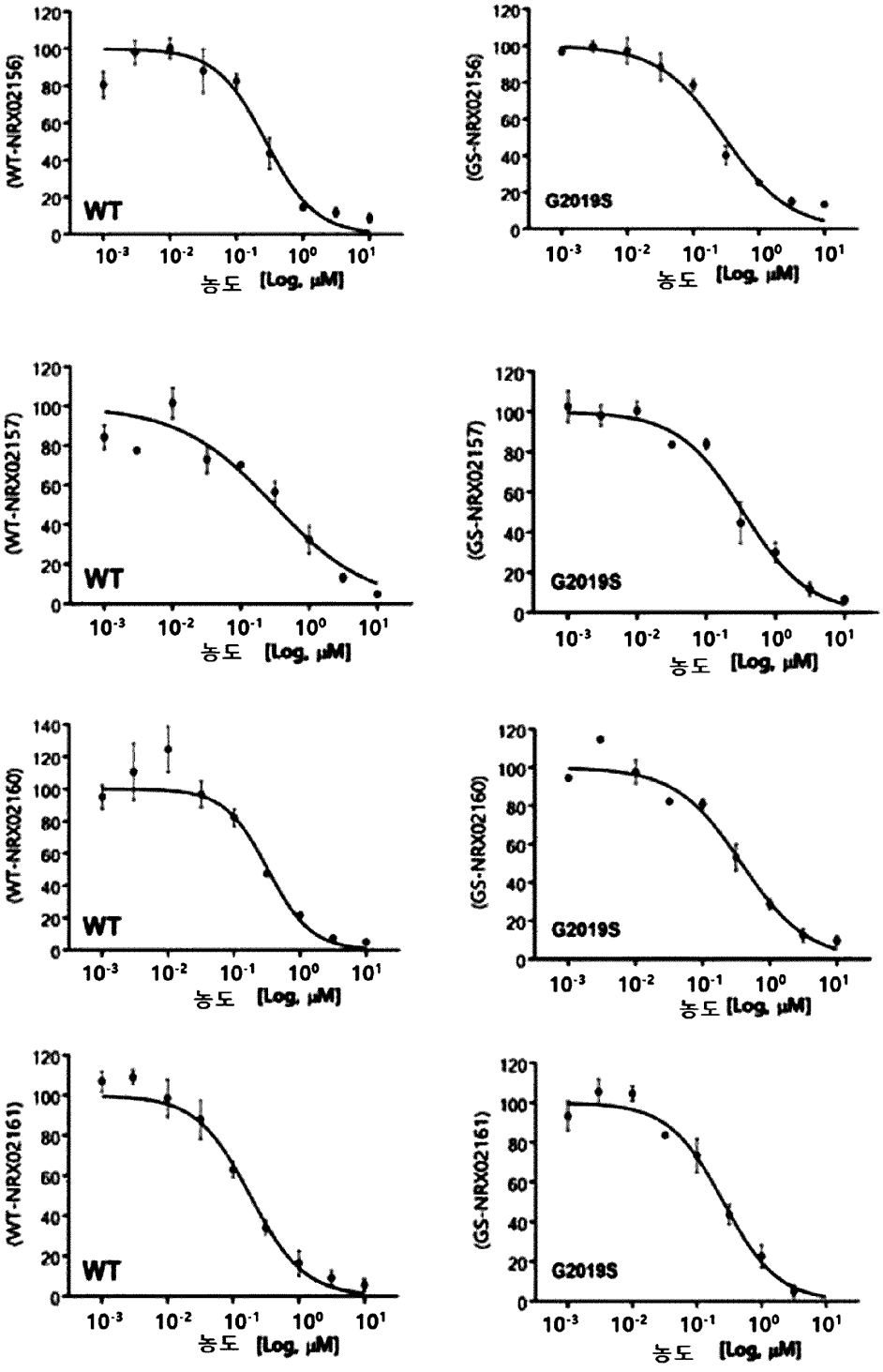
[도1b]


(WT-NRX02105)
WT
농도 [Log, μM]
(GS-NRX02105)
G2019S
농도 [Log, μM]
(WT-NRX02106)
WT
농도 [Log, μM]
(GS-NRX02106)
G2019S
농도 [Log, μM]
(WT-NRX02107)
WT
농도 [Log, μM]
(GS-NRX02107)
G2019S
농도 [Log, μM]
(WT-NRX02147)
WT
농도 [Log, μM]
(GS-NRX02147)
G2019S
농도 [Log, μM]

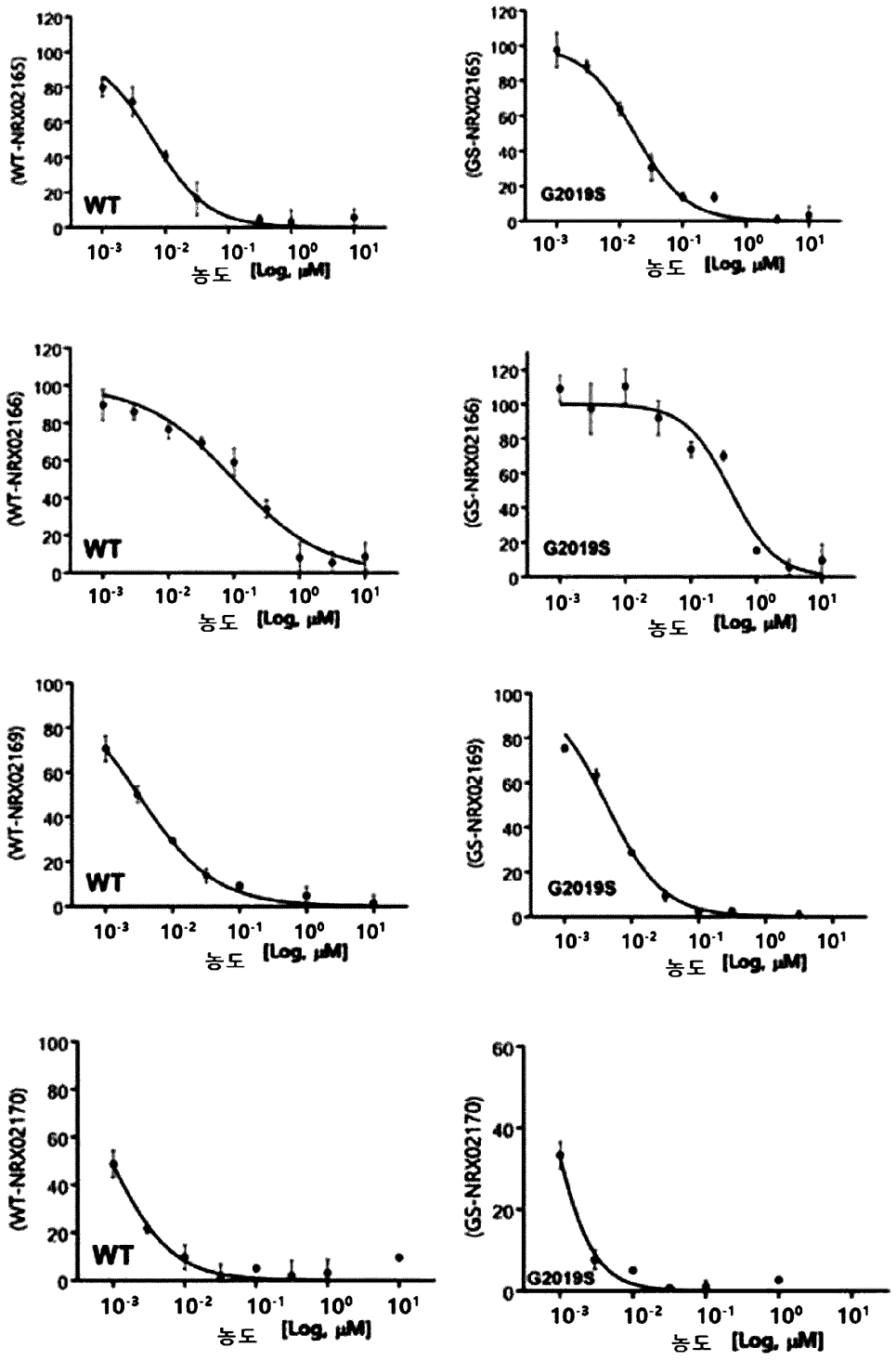
[도1c]


(WT-NRX02148)
WT
농도 [Log, μM]
(GS-NRX02148)
G2019S
농도 [Log, μM]
(WT-NRX02150)
WT
농도 [Log, μM]
(GS-NRX02150)
G2019S
농도 [Log, μM]
(WT-NRX02153)
WT
농도 [Log, μM]
(GS-NRX02153)
G2019S
농도 [Log, μM]
(WT-NRX02154)
WT
농도 [Log, μM]
(GS-NRX02154)
G2019S
농도 [Log, μM]

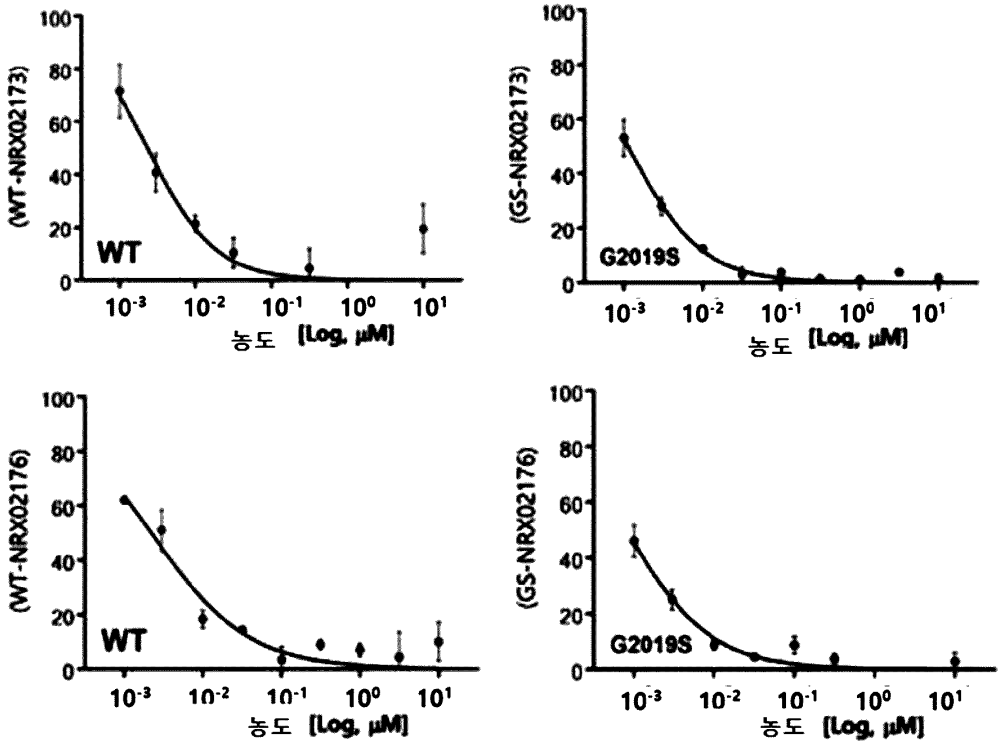
[도1d]


(WT-NRX02156)
WT
농도 [Log, μM]
(GS-NRX02156)
G2019S
농도 [Log, μM]
(WT-NRX02157)
WT
농도 [Log, μM]
(GS-NRX02157)
G2019S
농도 [Log, μM]
(WT-NRX02160)
WT
농도 [Log, μM]
(GS-NRX02160)
G2019S
농도 [Log, μM]
(WT-NRX02161)
WT
농도 [Log, μM]
(GS-NRX02161)
G2019S
농도 [Log, μM]

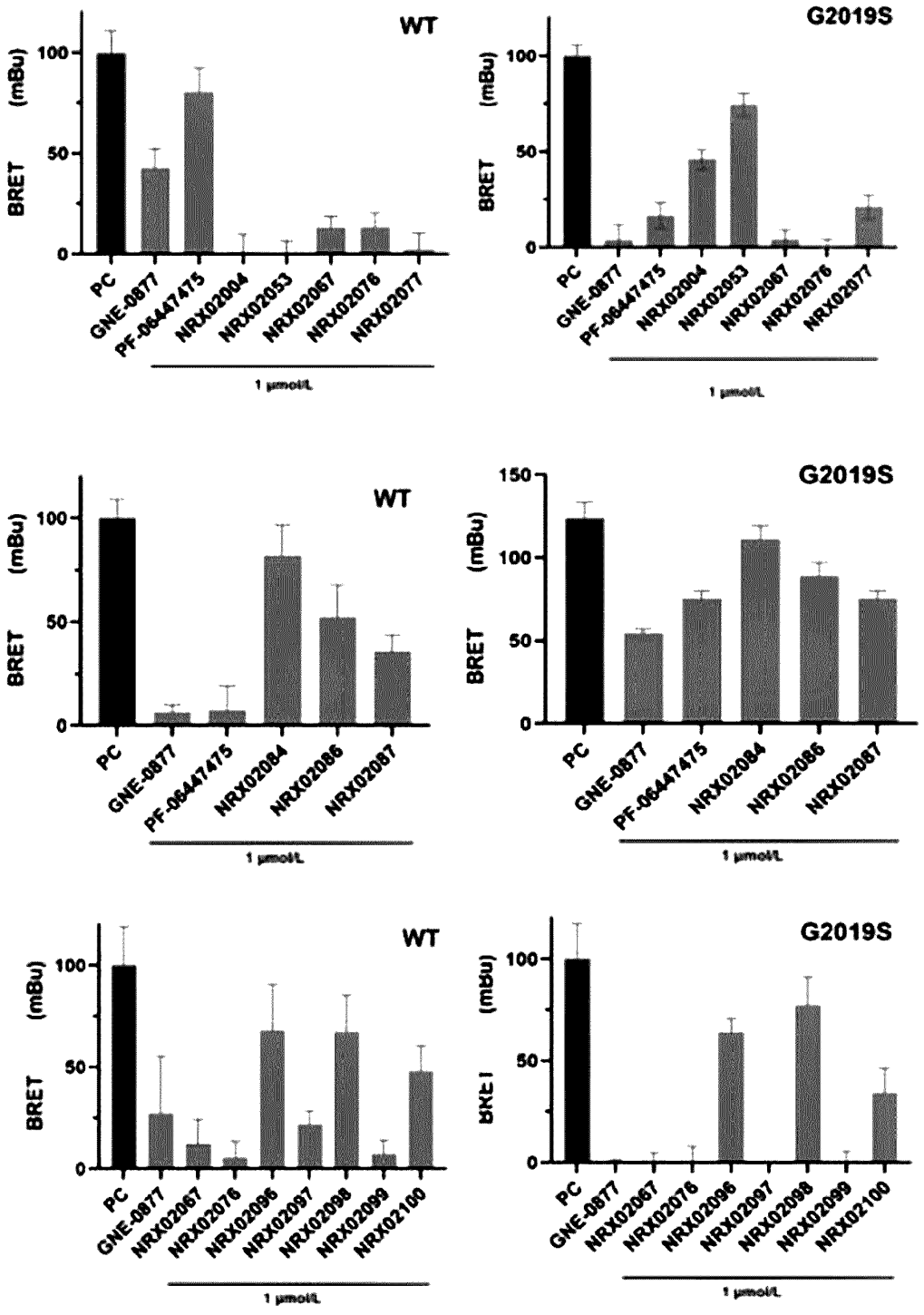
[도1e]


(WT-NRX02165)
WT
농도 [Log, μM]
(GS-NRX02165)
G2019S
농도 [Log, μM]
(WT-NRX02166)
WT
농도 [Log, μM]
(GS-NRX02166)
G2019S
농도 [Log, μM]
(WT-NRX02169)
WT
농도 [Log, μM]
(GS-NRX02169)
G2019S
농도 [Log, μM]
(WT-NRX02170)
WT
농도 [Log, μM]
(GS-NRX02170)
G2019S
농도 [Log, μM]

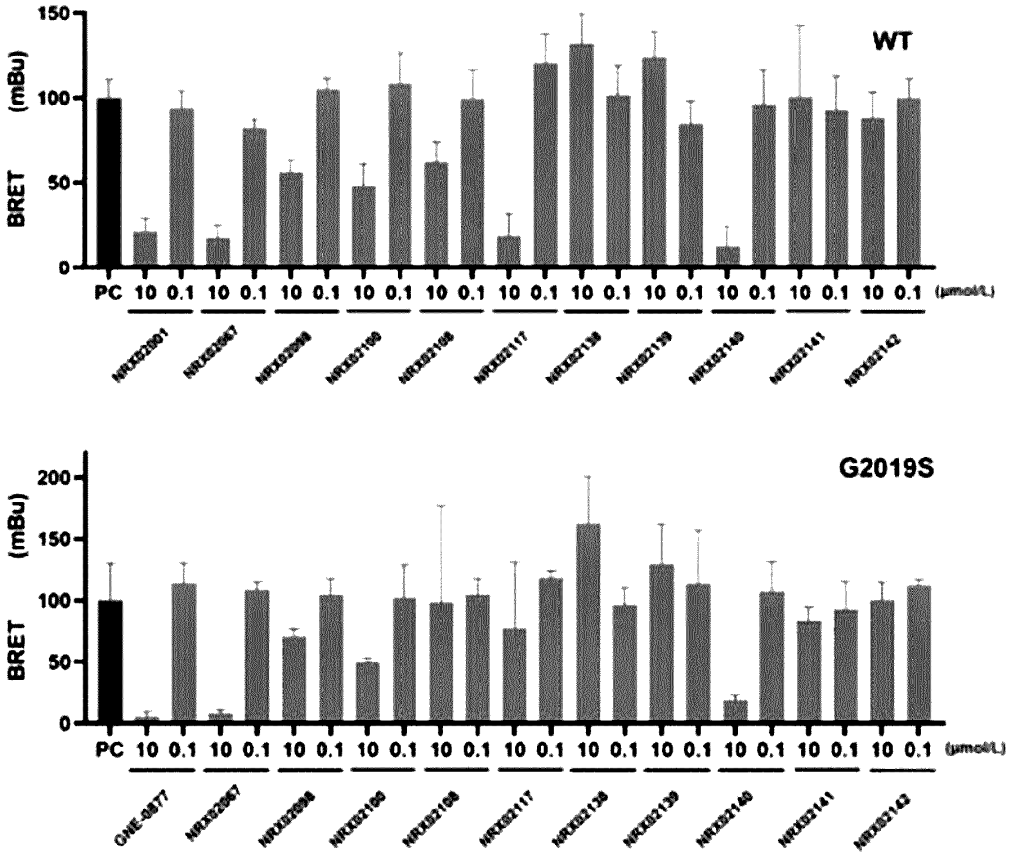
[도1f]


(WT-NRX02173)
WT
농도 [Log, μM]
(GS-NRX02173)
G2019S
농도 [Log, μM]
(WT-NRX02176)
WT
농도 [Log, μM]
(GS-NRX02176)
G2019S
농도 [Log, μM]

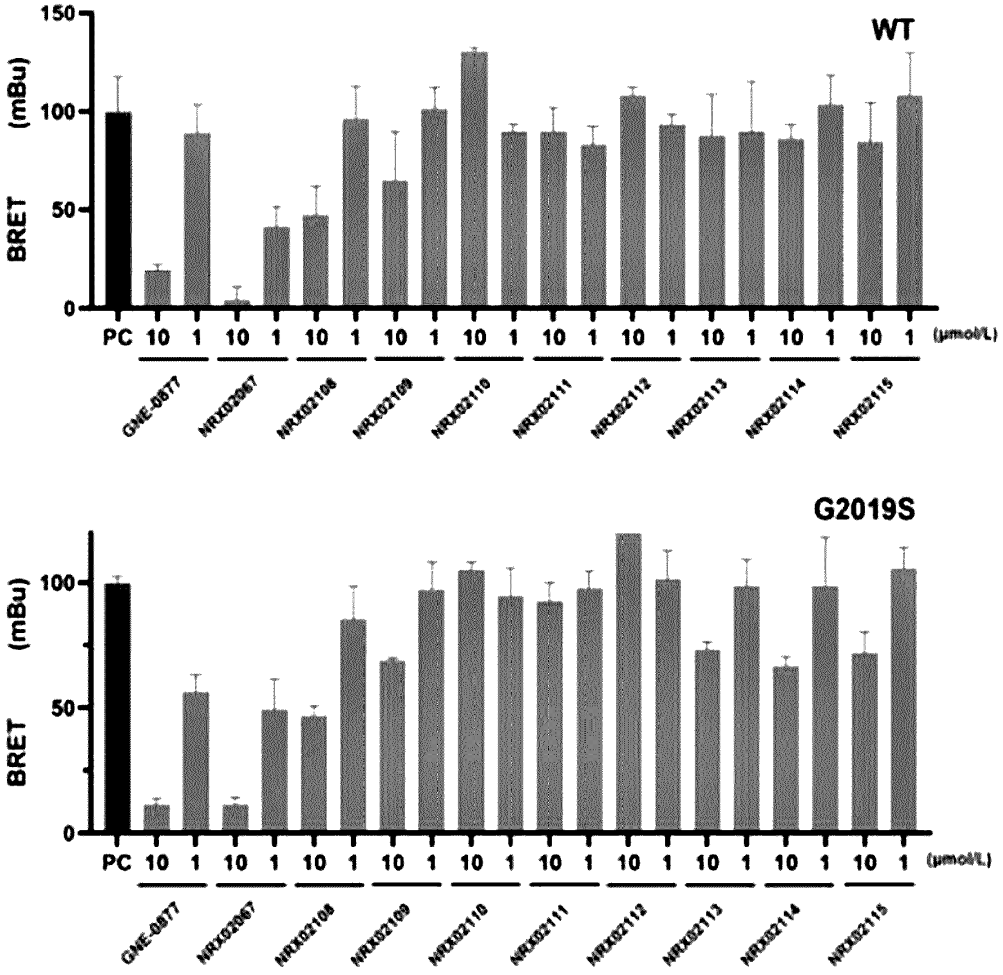
[도2a]


WT
G2019S
BRET (mBu)
100
50
0
PC
GNE-0877
PF-06447475
NRX02004
NRX02053
NRX02067
NRX02076
NRX02077
1 μmol/L
WT
G2019S
BRET (mBu)
150
100
50
0
PC
GNE-0877
PF-06447475
NRX02084
NRX02086
NRX02087
1 μmol/L
WT
G2019S
BRET (mBu)
100
50
0
PC
GNE-0877
NRX02067
NRX02076
NRX02096
NRX02097
NRX02098
NRX02099
NRX02100
1 μmol/L

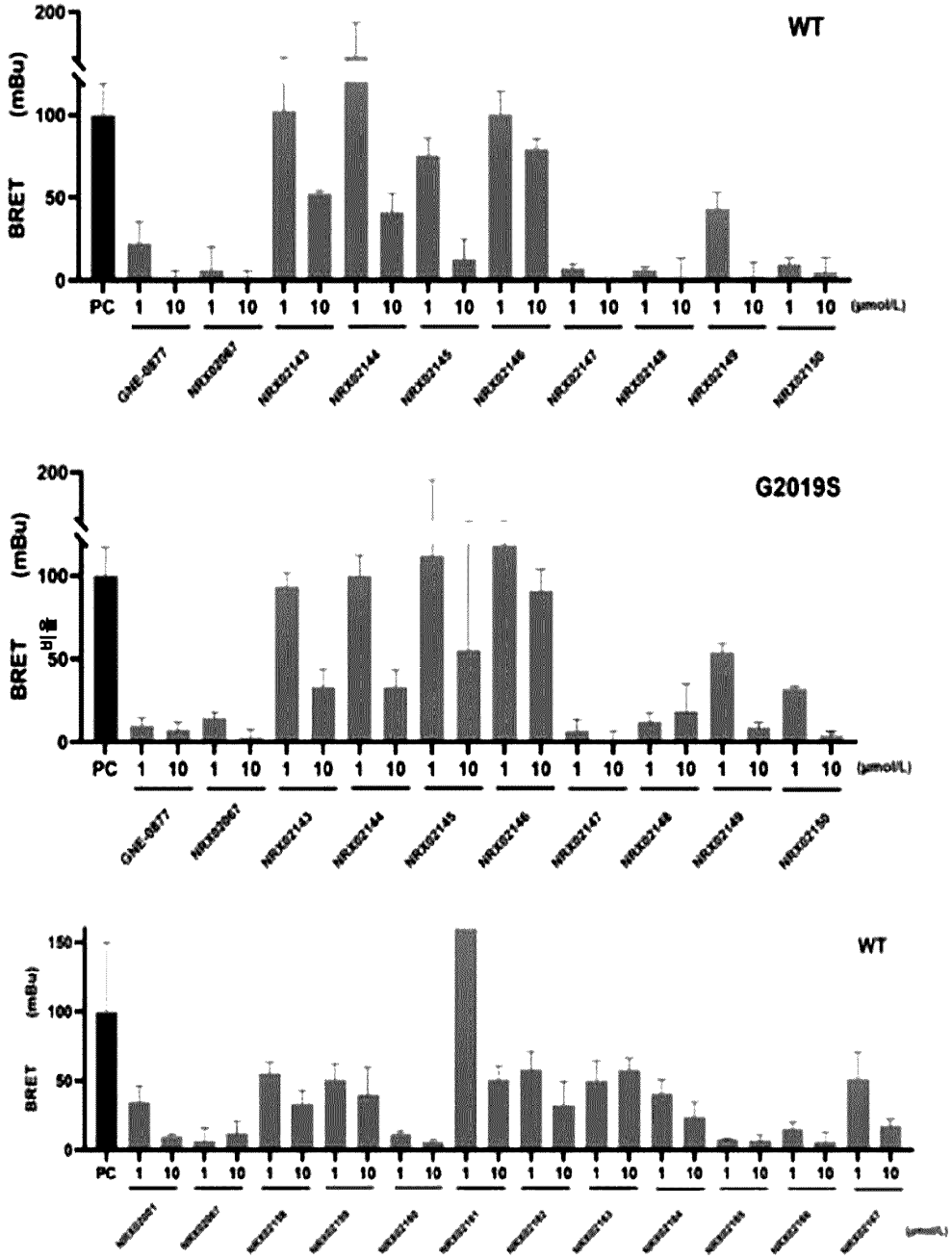
[도2b]


WT
BRET (mBu)
150
100
50
0
PC 10 0.1 10 0.1 10 0.1 10 0.1 10 0.1 10 0.1 10 0.1 10 0.1 10 0.1 10 0.1 10 0.1 (μmol/L)
NRX02001
NRX02067
NRX02098
NRX02100
NRX02108
NRX02117
NRX02138
NRX02139
NRX02140
NRX02141
NRX02142
G2019S
BRET (mBu)
200
150
100
50
0
PC 10 0.1 10 0.1 10 0.1 10 0.1 10 0.1 10 0.1 10 0.1 10 0.1 10 0.1 10 0.1 10 0.1 (μmol/L)
GNE-0877
NRX02067
NRX02098
NRX02100
NRX02108
NRX02117
NRX02138
NRX02139
NRX02140
NRX02141
NRX02142

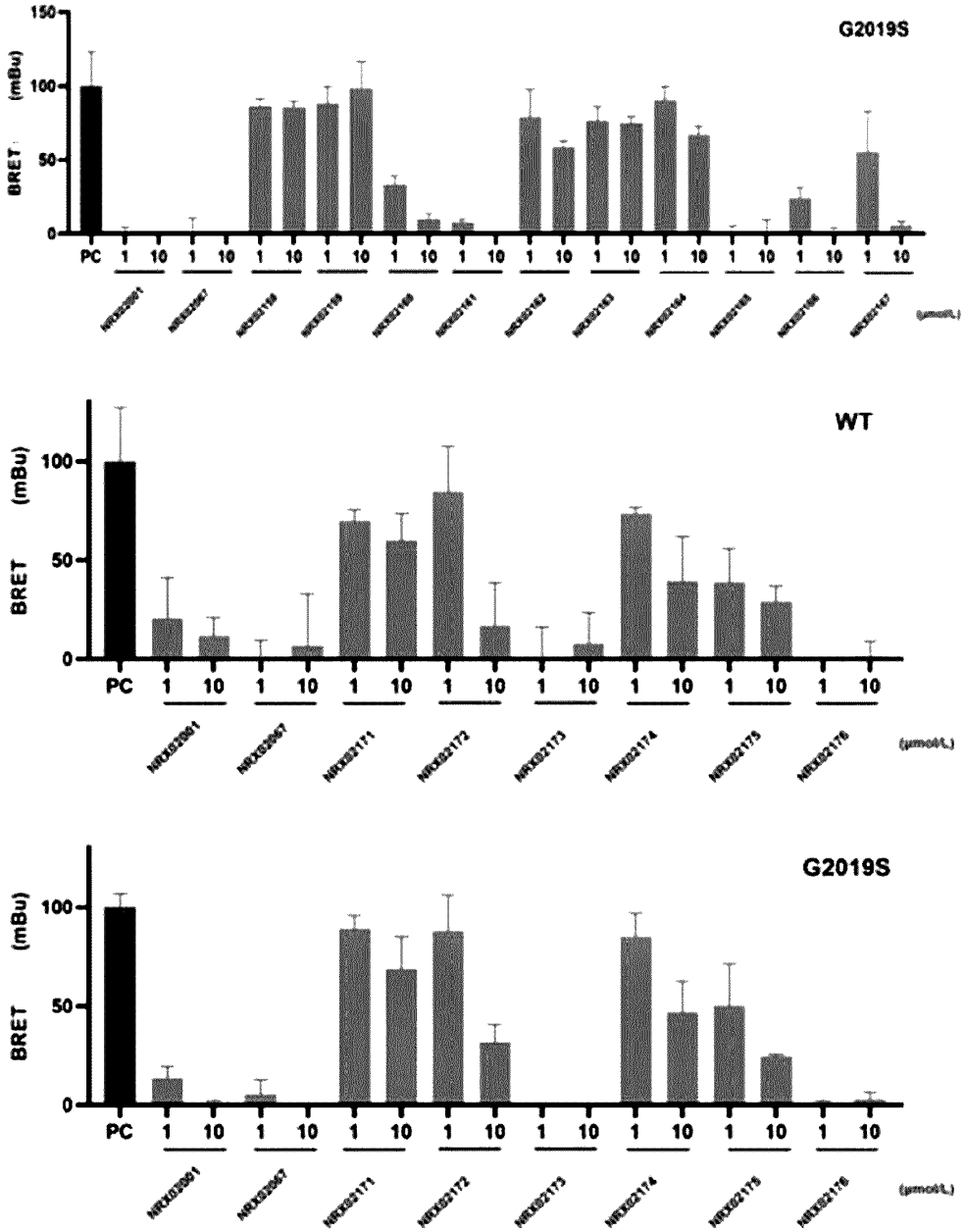
[도2c]


WT
BRET (mBu)
150
100
50
0
PC 10 1 10 1 10 1 10 1 10 1 10 1 10 1 10 1 10 1 10 1 10 1 (μmol/L)
GNE-0877
NRX02067
NRX02108
NRX02109
NRX02110
NRX02111
NRX02112
NRX02113
NRX02114
NRX02115
G2019S
BRET (mBu)
100
50
0
PC 10 1 10 1 10 1 10 1 10 1 10 1 10 1 10 1 10 1 10 1 10 1 (μmol/L)
GNE-0877
NRX02067
NRX02108
NRX02109
NRX02110
NRX02111
NRX02112
NRX02113
NRX02114
NRX02115

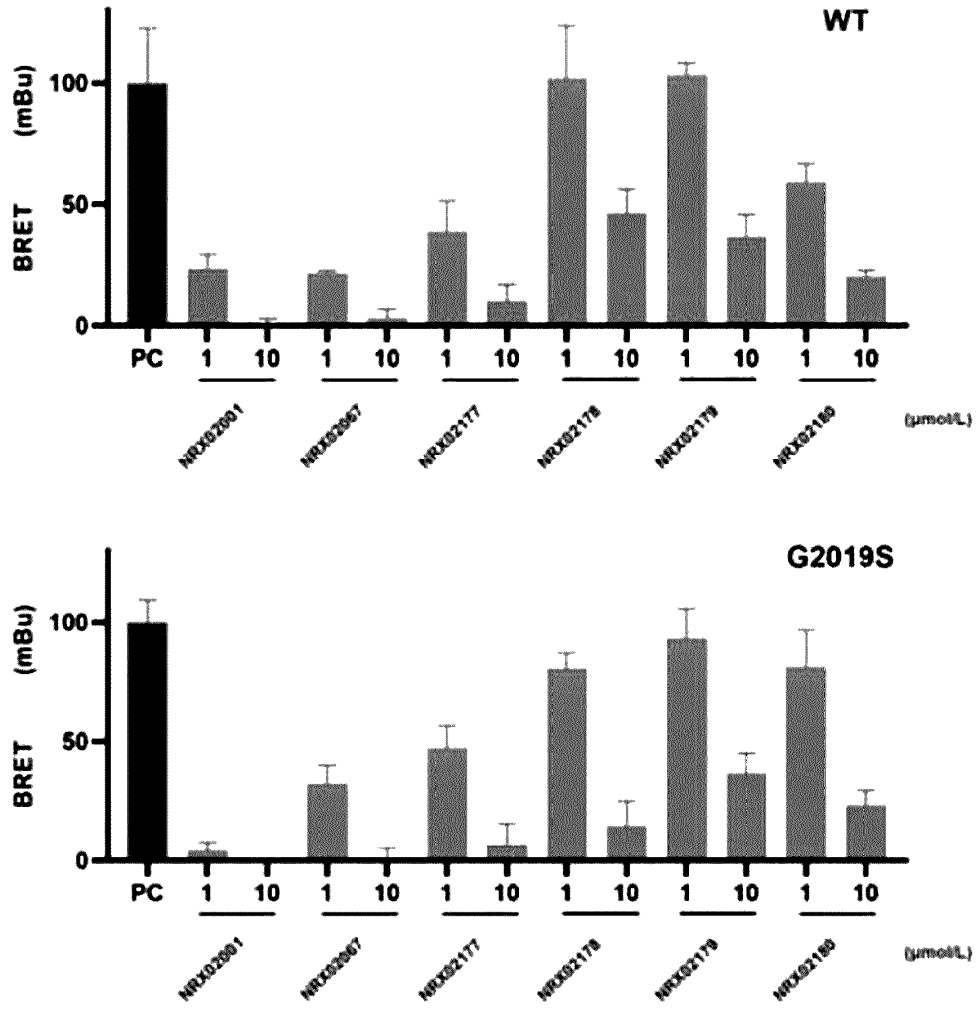
[도2d]


WT
BRET (mBu)
200
100
50
0
PC 1 10 1 10 1 10 1 10 1 10 1 10 1 10 1 10 1 10 1 10 (μmol/L)
GNE-0877
NRX02067
NRX02143
NRX02144
NRX02145
NRX02146
NRX02147
NRX02148
NRX02149
NRX02150
G2019S
BRET (mBu)
200
100
50
0
PC 1 10 1 10 1 10 1 10 1 10 1 10 1 10 1 10 1 10 1 10 (μmol/L)
GNE-0877
NRX02067
NRX02143
NRX02144
NRX02145
NRX02146
NRX02147
NRX02148
NRX02149
NRX02150
WT
BRET (mBu)
150
100
50
0
PC 1 10 1 10 1 10 1 10 1 10 1 10 1 10 1 10 1 10 1 10 1 10 1 10 1 10

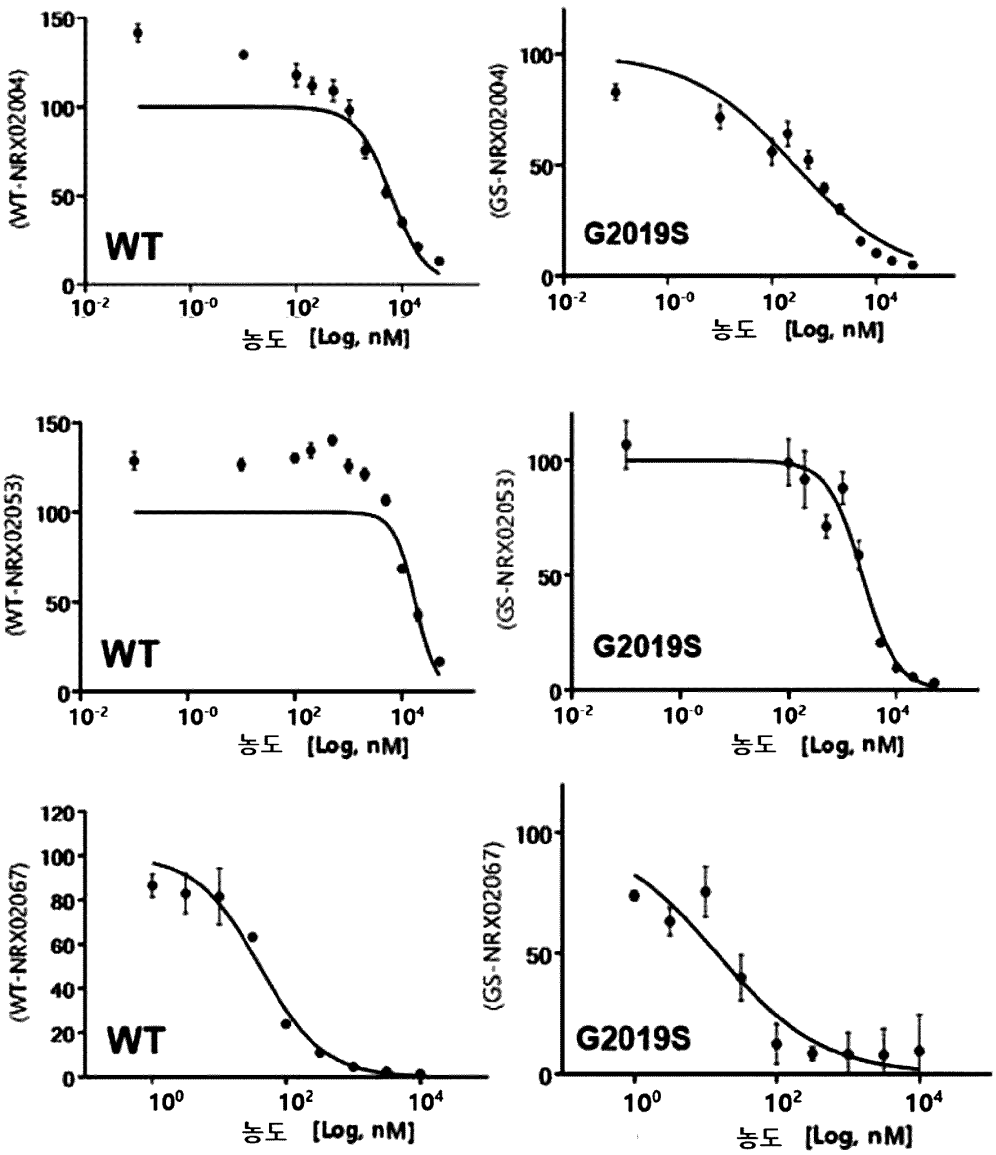
[도2e]


G2019S
BRET (mBu)
150
100
50
0
PC
1
10
(μmol/L)
WT
BRET (mBu)
100
50
0
PC
1
10
(μmol/L)
G2019S
BRET (mBu)
100
50
0
PC
1
10
(μmol/L)

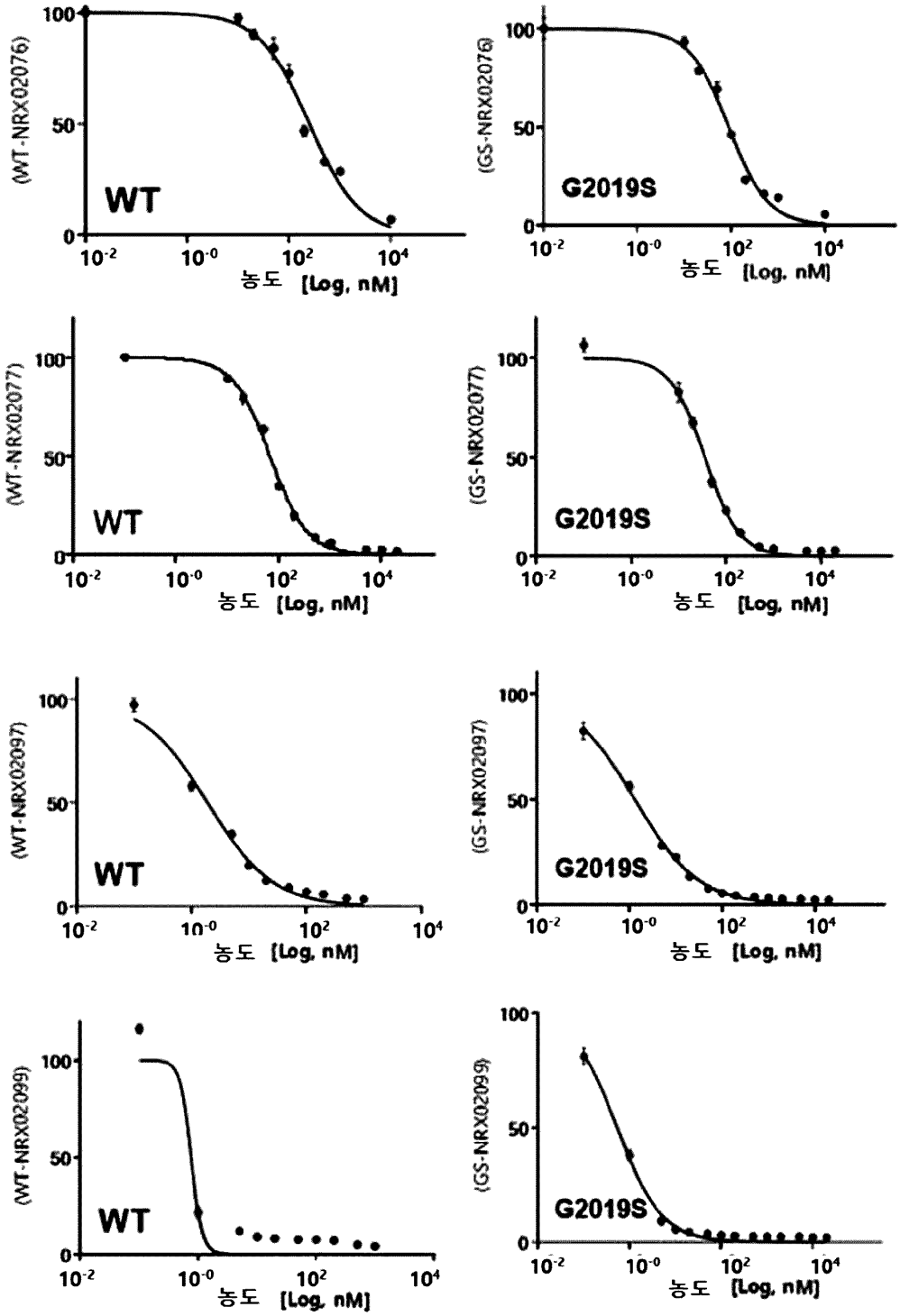
[도2f]


WT
BRET (mBu)
100
50
0
PC
1
10
NRX02001
NRX02067
NRX02177
NRX02178
NRX02179
NRX02180
(μmol/L)
G2019S
BRET (mBu)
100
50
0
PC
1
10
NRX02001
NRX02067
NRX02177
NRX02178
NRX02179
NRX02180
(μmol/L)

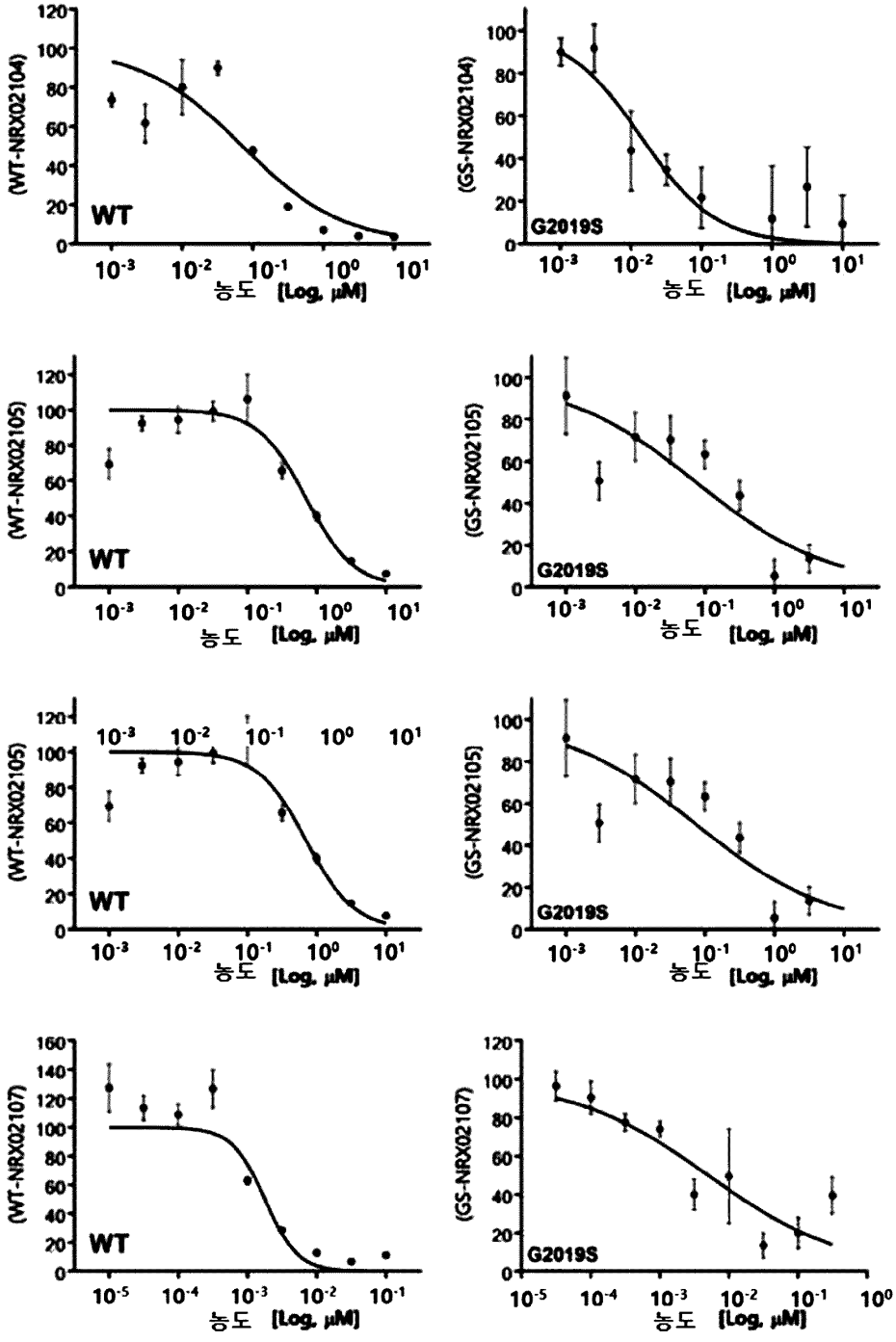
[도3a]


(WT-NRX02004)
WT
농도 [Log, nM]
(GS-NRX02004)
G2019S
농도 [Log, nM]
(WT-NRX02053)
WT
농도 [Log, nM]
(GS-NRX02053)
G2019S
농도 [Log, nM]
(WT-NRX02067)
WT
농도 [Log, nM]
(GS-NRX02067)
G2019S
농도 [Log, nM]

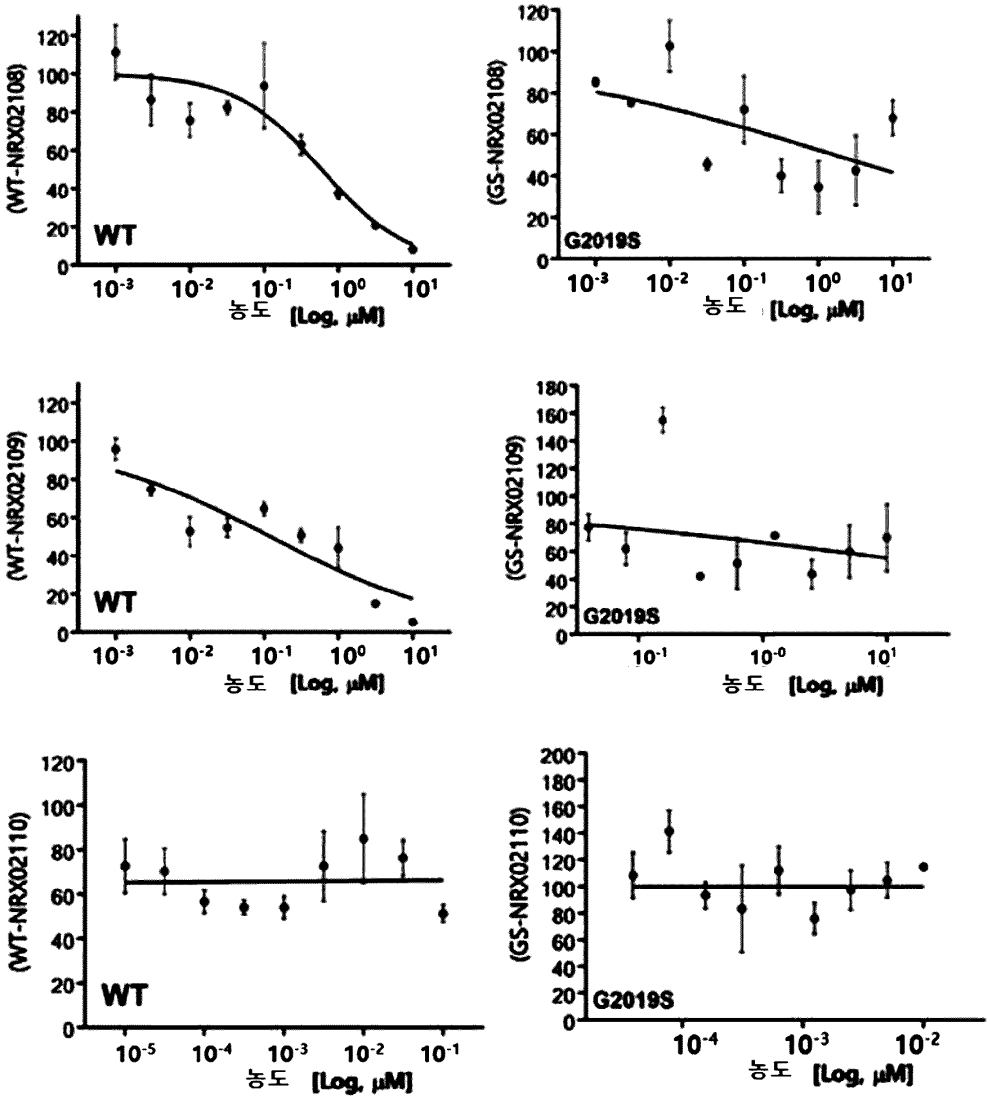
[도3b]


(WT-NRX02076)
WT
농도 [Log, nM]
(GS-NRX02076)
G2019S
농도 [Log, nM]
(WT-NRX02077)
WT
농도 [Log, nM]
(GS-NRX02077)
G2019S
농도 [Log, nM]
(WT-NRX02097)
WT
농도 [Log, nM]
(GS-NRX02097)
G2019S
농도 [Log, nM]
(WT-NRX02099)
WT
농도 [Log, nM]
(GS-NRX02099)
G2019S
농도 [Log, nM]

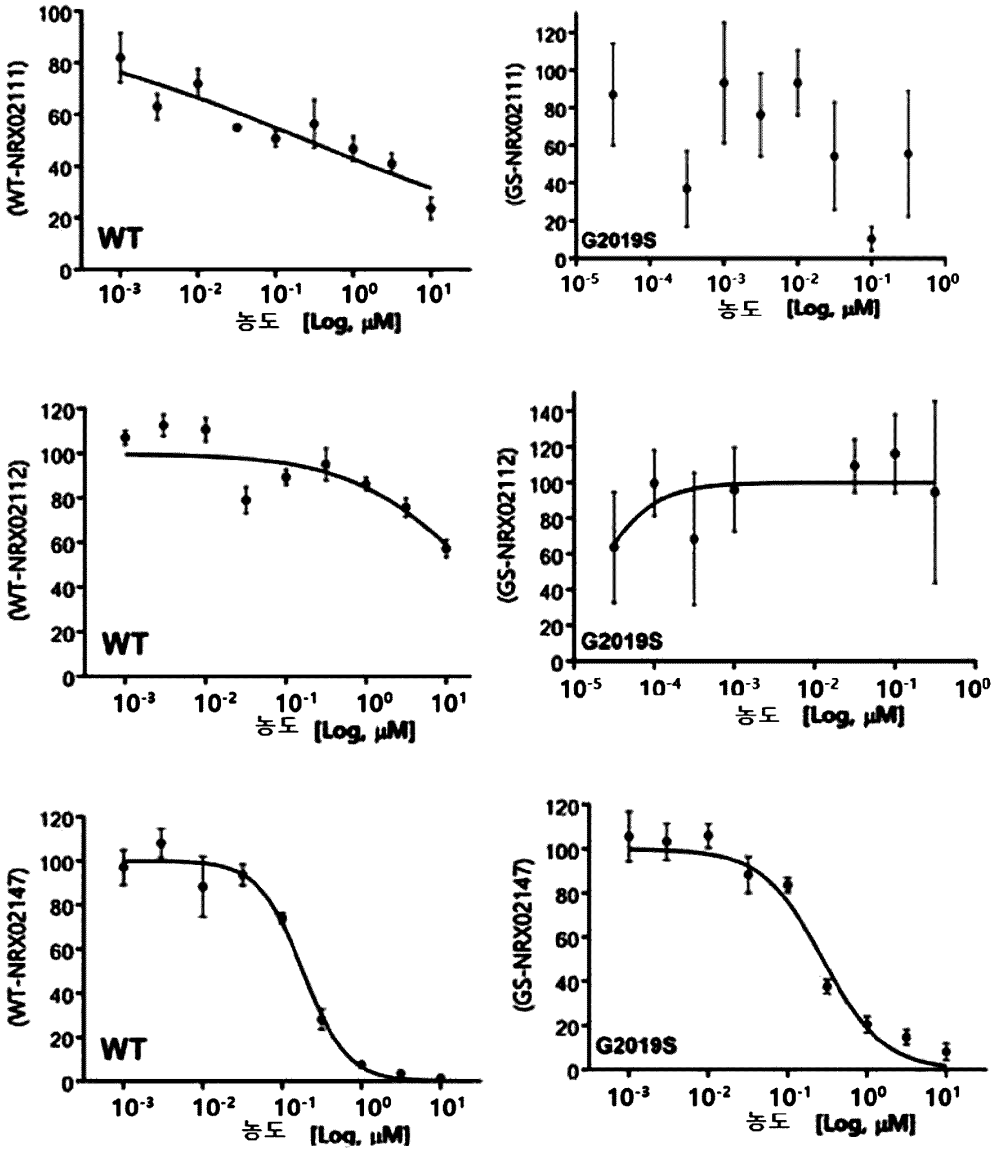
[도3c]


(WT-NRX02104)
WT
농도 [Log, μM]
(GS-NRX02104)
G2019S
농도 [Log, μM]
(WT-NRX02105)
WT
농도 [Log, μM]
(GS-NRX02105)
G2019S
농도 [Log, μM]
(WT-NRX02105)
WT
농도 [Log, μM]
(GS-NRX02105)
G2019S
농도 [Log, μM]
(WT-NRX02107)
WT
농도 [Log, μM]
(GS-NRX02107)
G2019S
농도 [Log, μM]

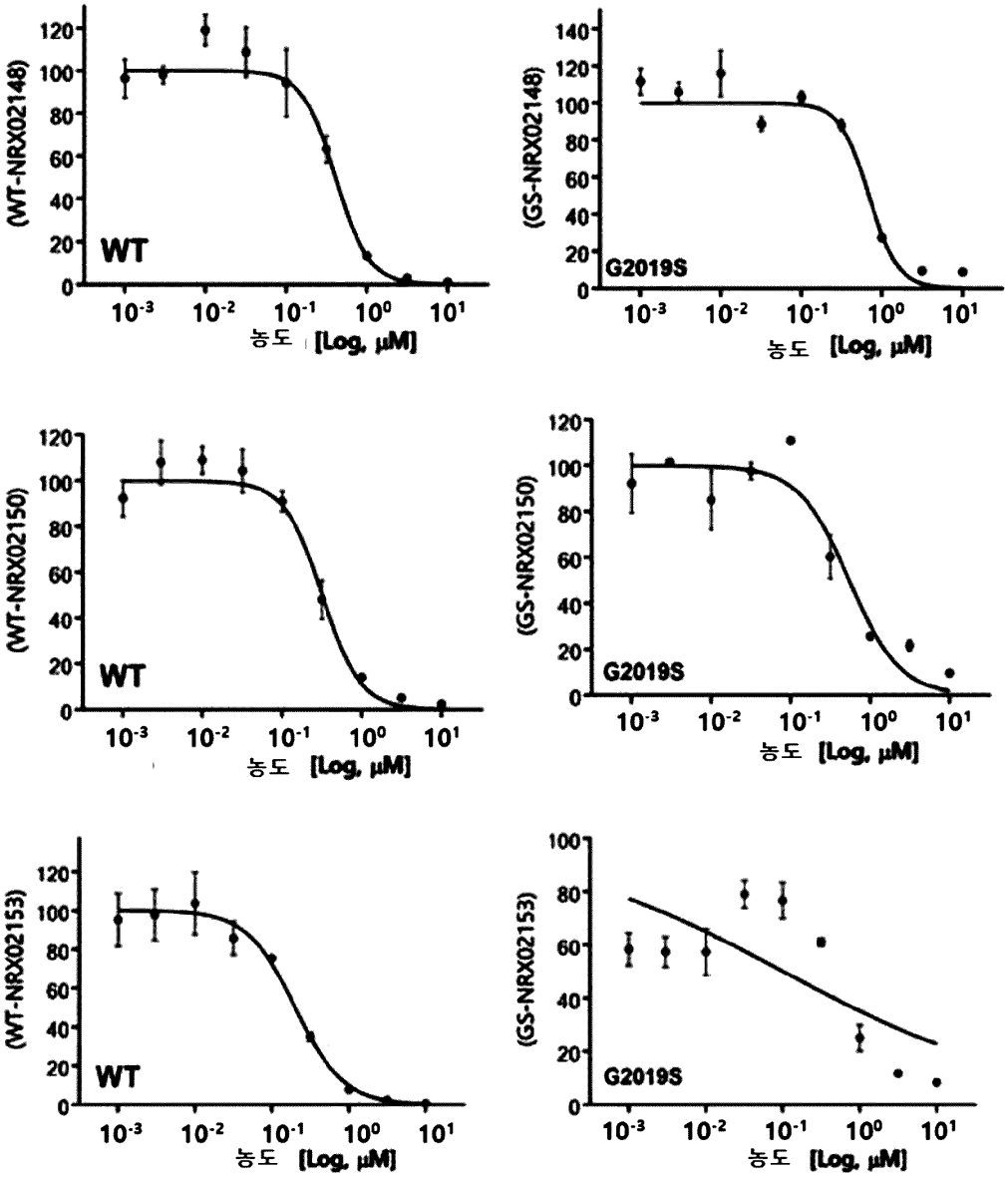
[도3d]


(WT-NRX02108)
WT
농도 [Log, μM]
(GS-NRX02108)
G2019S
농도 [Log, μM]
(WT-NRX02109)
WT
농도 [Log, μM]
(GS-NRX02109)
G2019S
농도 [Log, μM]
(WT-NRX02110)
WT
농도 [Log, μM]
(GS-NRX02110)
G2019S
농도 [Log, μM]

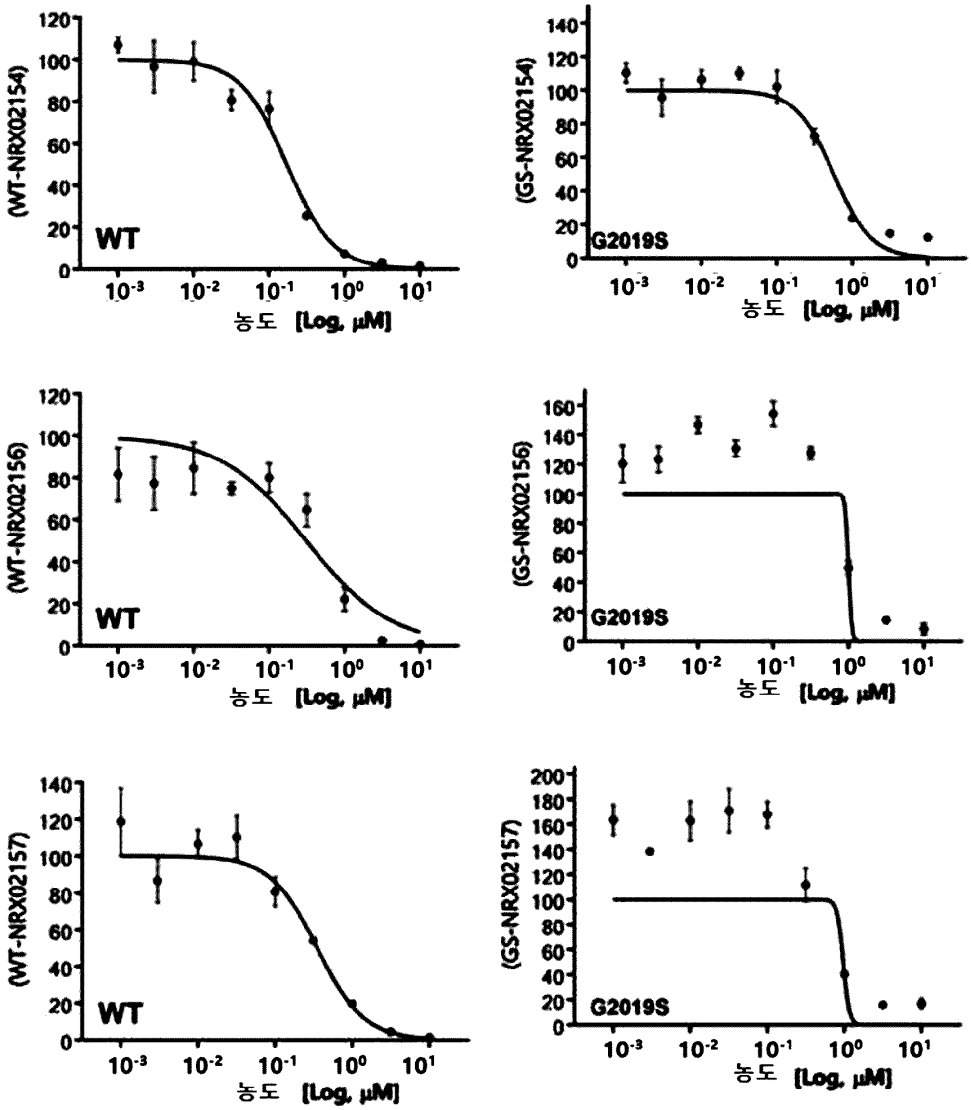
[도3e]


(WT-NRX02111)
WT
농도 [Log, μM]
(GS-NRX02111)
G2019S
농도 [Log, μM]
(WT-NRX02112)
WT
농도 [Log, μM]
(GS-NRX02112)
G2019S
농도 [Log, μM]
(WT-NRX02147)
WT
농도 [Log, μM]
(GS-NRX02147)
G2019S
농도 [Log, μM]

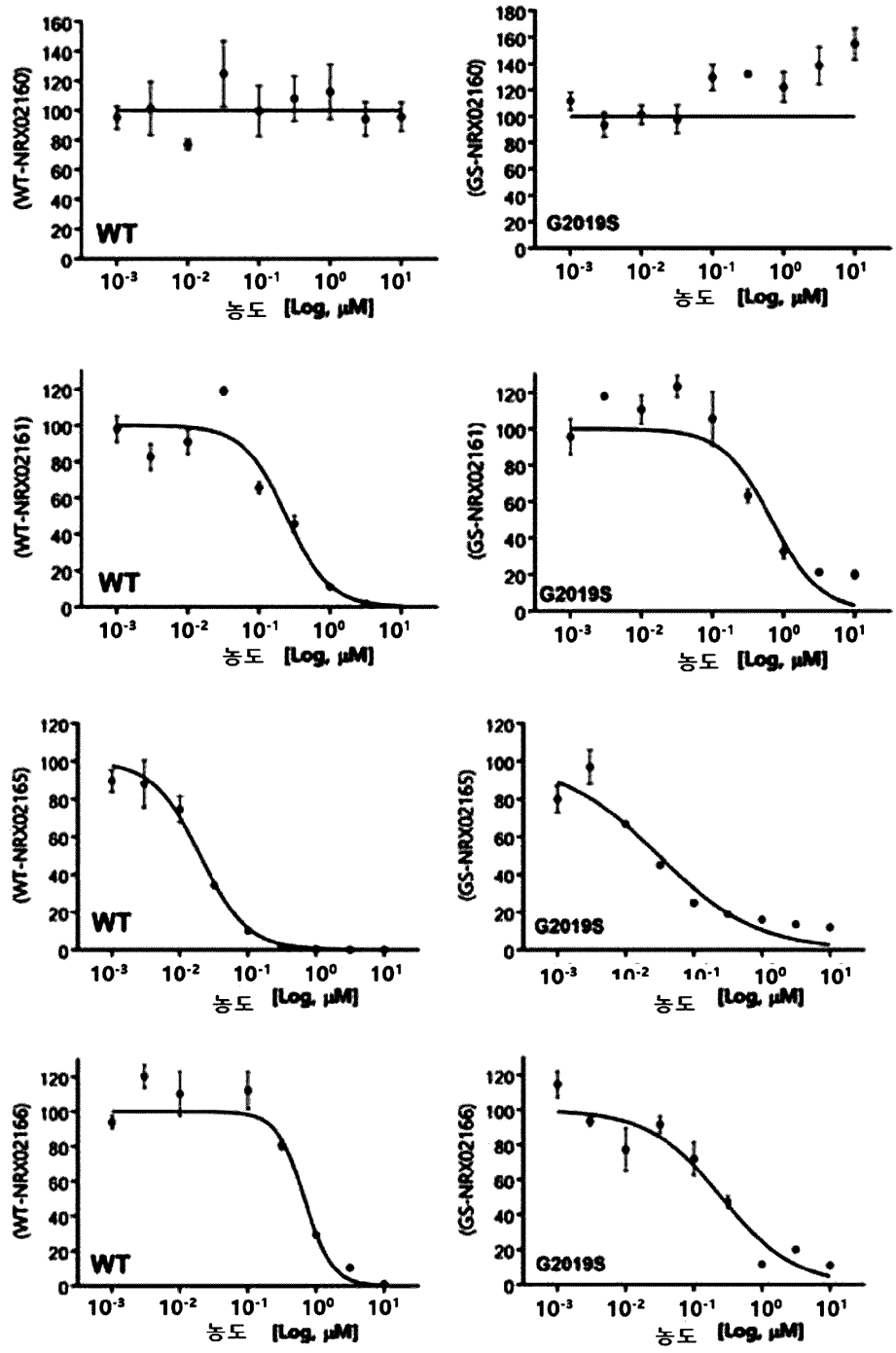
[도3f]


(WT-NRX02148)
WT
농도 [Log, μM]
(GS-NRX02148)
G2019S
농도 [Log, μM]
(WT-NRX02150)
WT
농도 [Log, μM]
(GS-NRX02150)
G2019S
농도 [Log, μM]
(WT-NRX02153)
WT
농도 [Log, μM]
(GS-NRX02153)
G2019S
농도 [Log, μM]

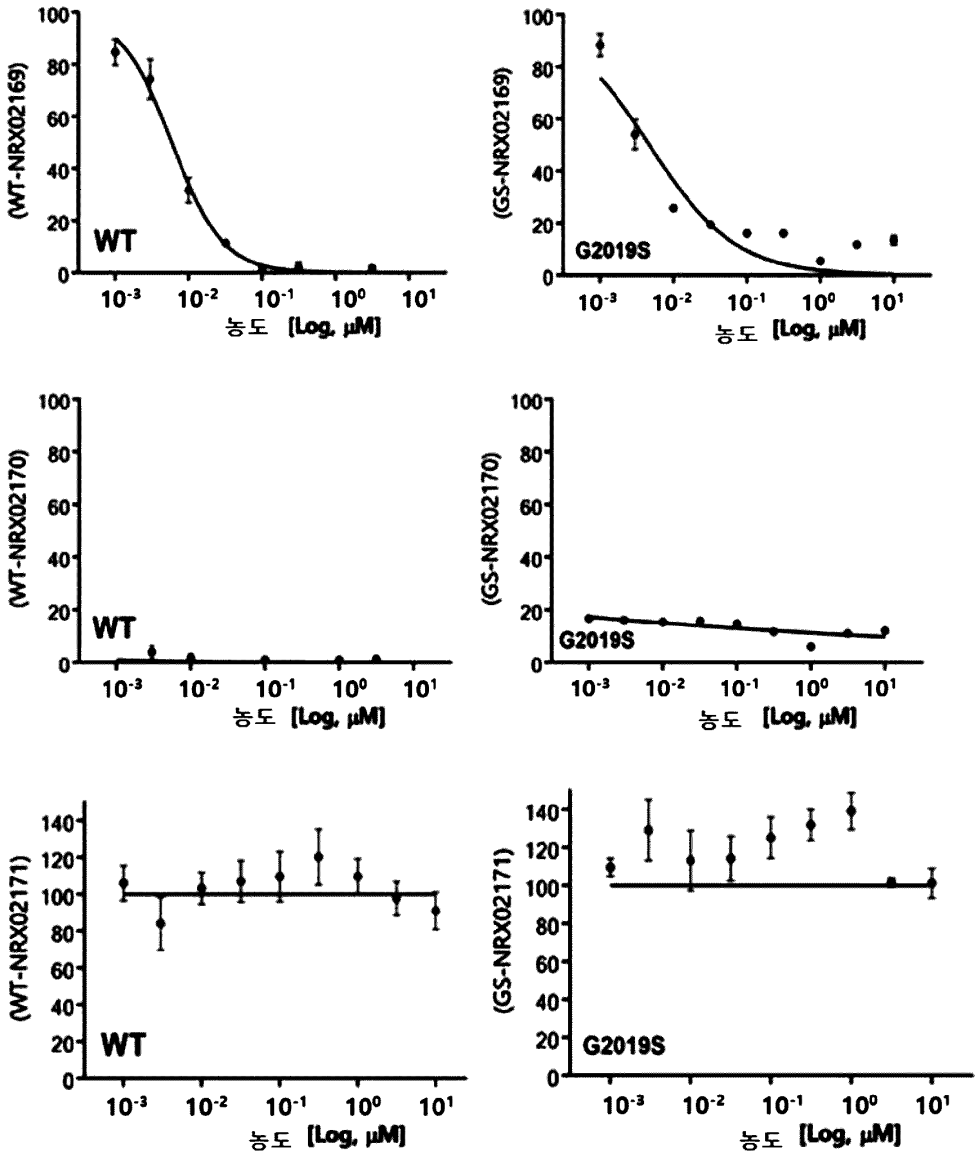
[도3g]


(WT-NRX02154)
WT
농도 [Log, μM]
(GS-NRX02154)
G2019S
농도 [Log, μM]
(WT-NRX02156)
WT
농도 [Log, μM]
(GS-NRX02156)
G2019S
농도 [Log, μM]
(WT-NRX02157)
WT
농도 [Log, μM]
(GS-NRX02157)
G2019S
농도 [Log, μM]

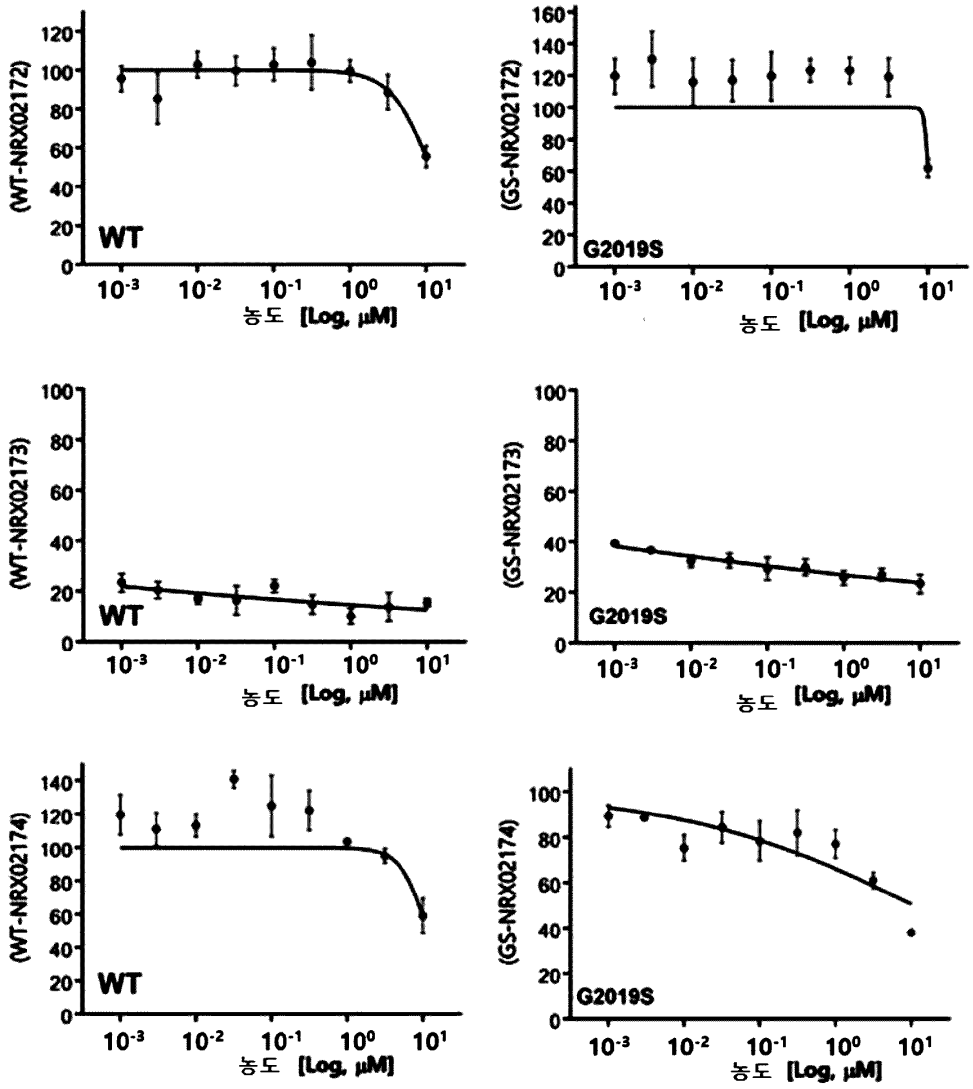
[도3h]


(WT-NRX02160)
WT
농도 [Log, μM]
(GS-NRX02160)
G2019S
농도 [Log, μM]
(WT-NRX02161)
WT
농도 [Log, μM]
(GS-NRX02161)
G2019S
농도 [Log, μM]
(WT-NRX02165)
WT
농도 [Log, μM]
(GS-NRX02165)
G2019S
농도 [Log, μM]
(WT-NRX02166)
WT
농도 [Log, μM]
(GS-NRX02166)
G2019S
농도 [Log, μM]

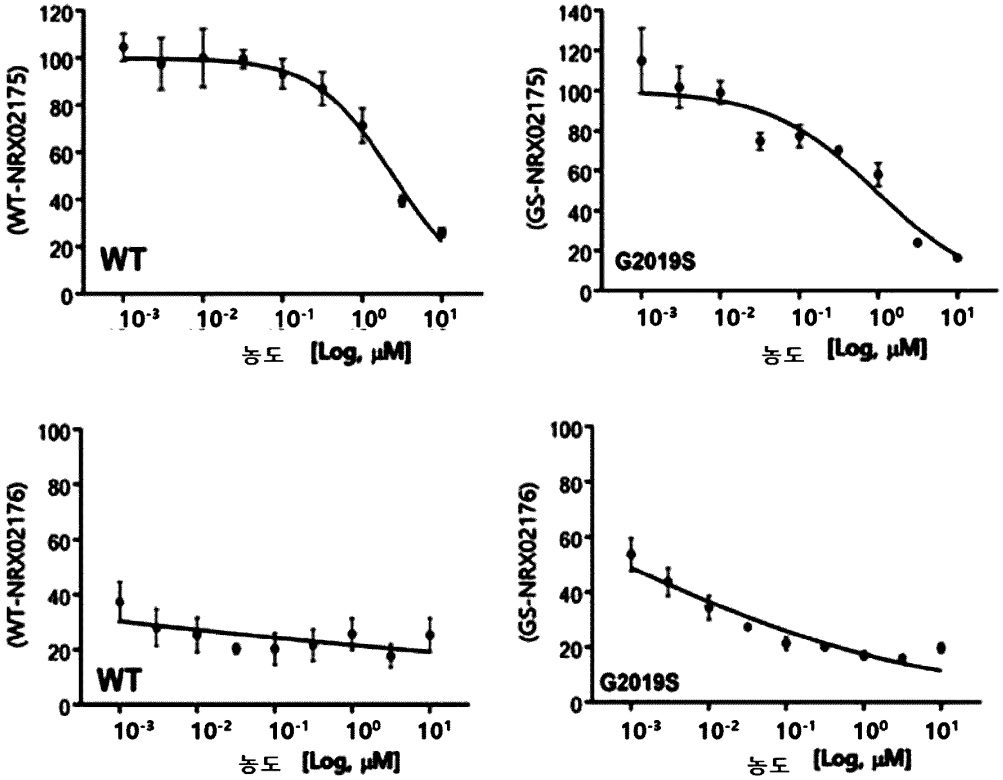
[도3i]


(WT-NRX02169)
WT
농도 [Log, μM]
(GS-NRX02169)
G2019S
농도 [Log, μM]
(WT-NRX02170)
WT
농도 [Log, μM]
(GS-NRX02170)
G2019S
농도 [Log, μM]
(WT-NRX02171)
WT
농도 [Log, μM]
(GS-NRX02171)
G2019S
농도 [Log, μM]

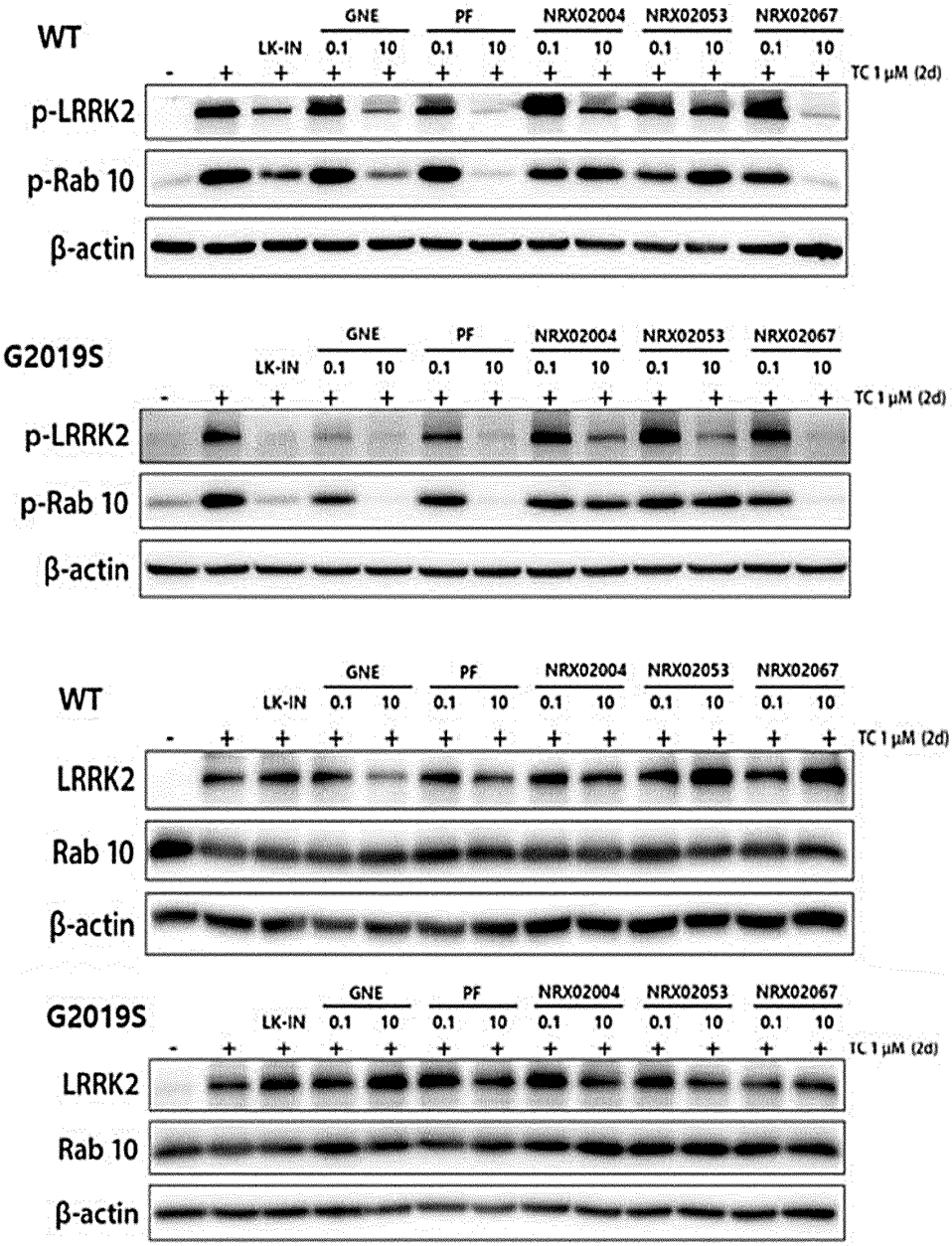
[도3j]


(WT-NRX02172)
WT
농도 [Log, μM]
(GS-NRX02172)
G2019S
농도 [Log, μM]
(WT-NRX02173)
WT
농도 [Log, μM]
(GS-NRX02173)
G2019S
농도 [Log, μM]
(WT-NRX02174)
WT
농도 [Log, μM]
(GS-NRX02174)
G2019S
농도 [Log, μM]

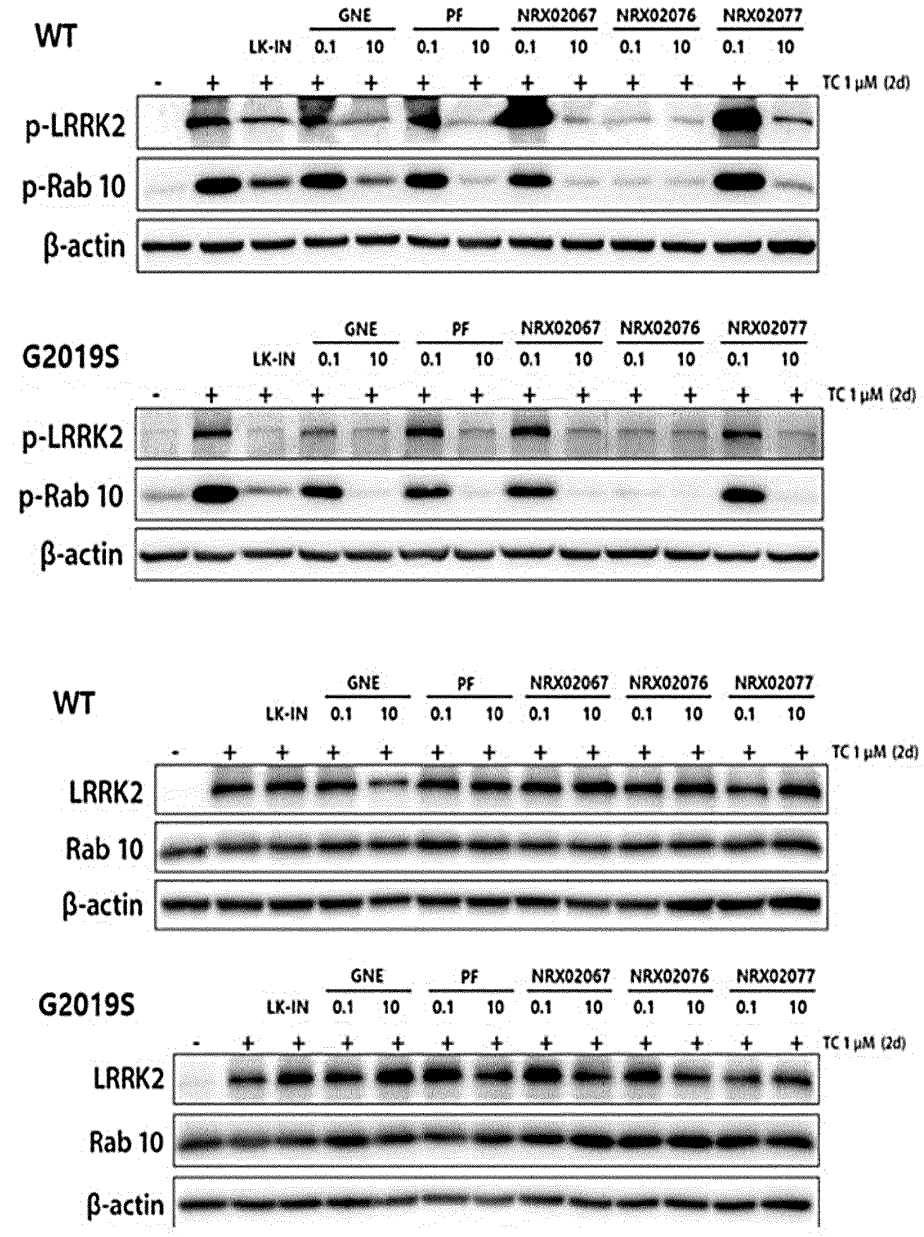
[도3k]


(WT-NRX02175)
WT
농도 [Log, μM]
(GS-NRX02175)
G2019S
농도 [Log, μM]
(WT-NRX02176)
WT
농도 [Log, μM]
(GS-NRX02176)
G2019S
농도 [Log, μM]

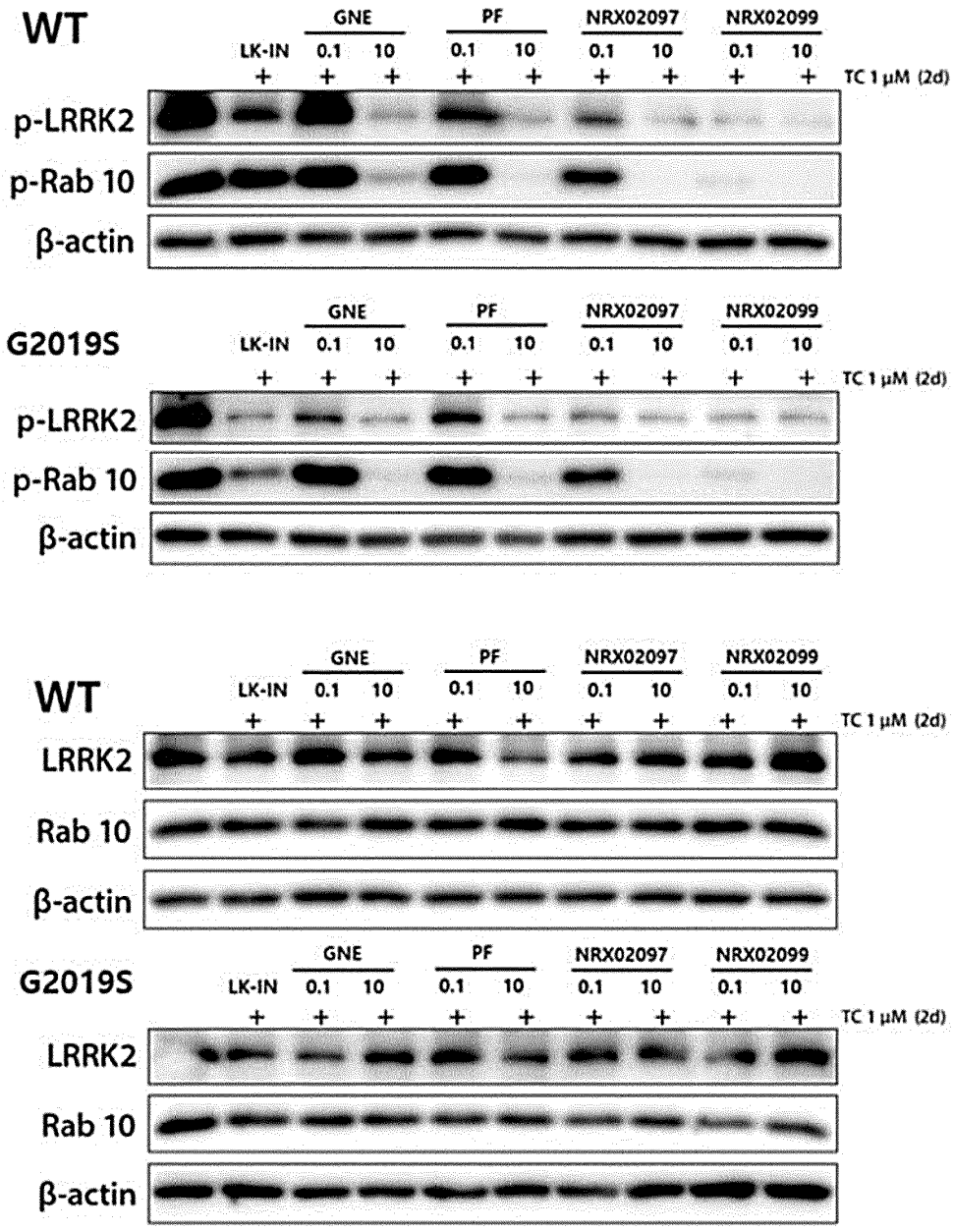
[도4a]


WT
GNE
PF
NRX02004
NRX02053
NRX02067
LK-IN
0.1
10
TC 1 μM (2d)
p-LRRK2
p-Rab 10
β-actin
G2019S
LRRK2
Rab 10

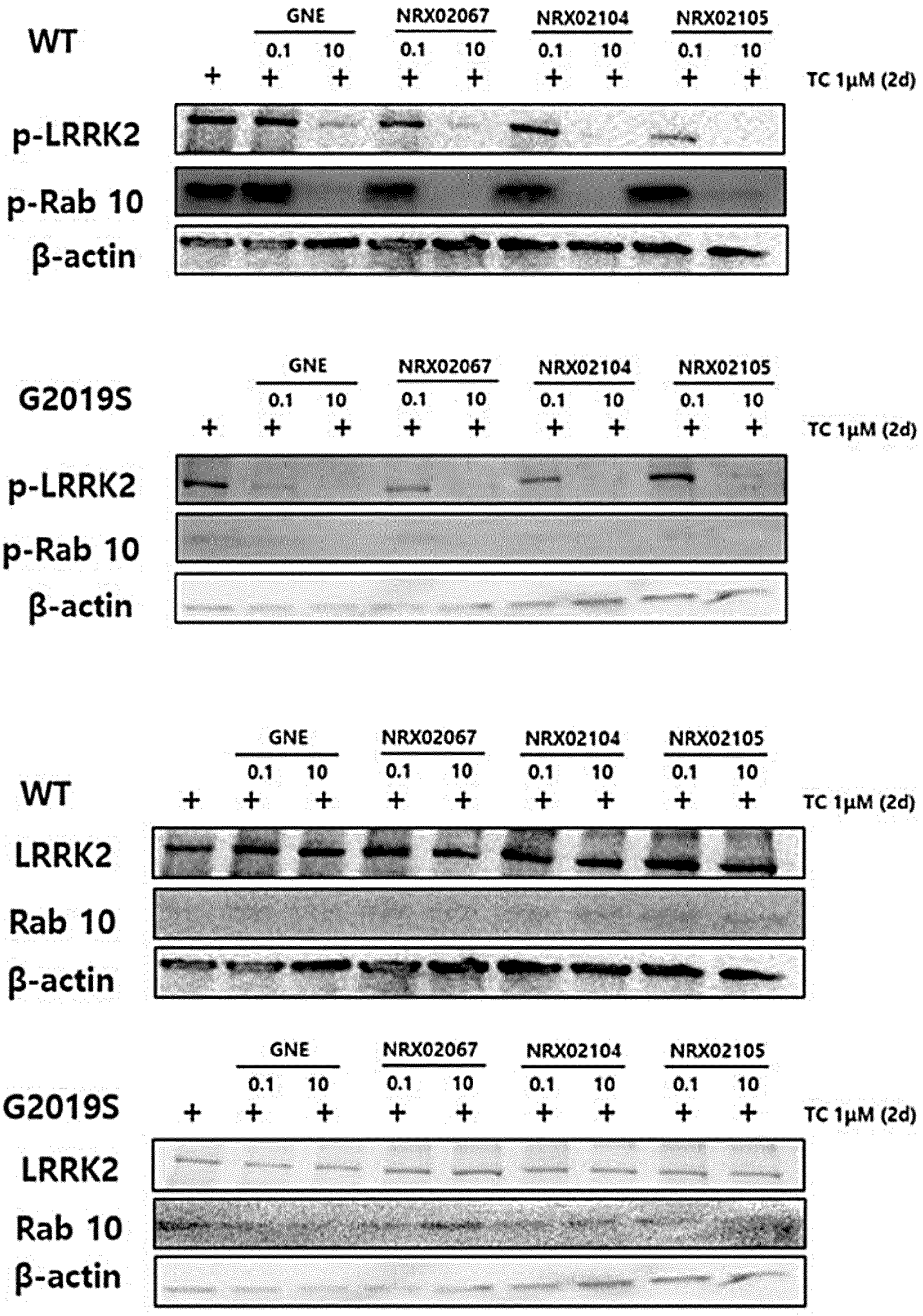
[도4b]


WT
GNE
PF
NRX02067
NRX02076
NRX02077
LK-IN
0.1
10
TC 1 μM (2d)
p-LRRK2
p-Rab 10
β-actin
G2019S
LRRK2
Rab 10

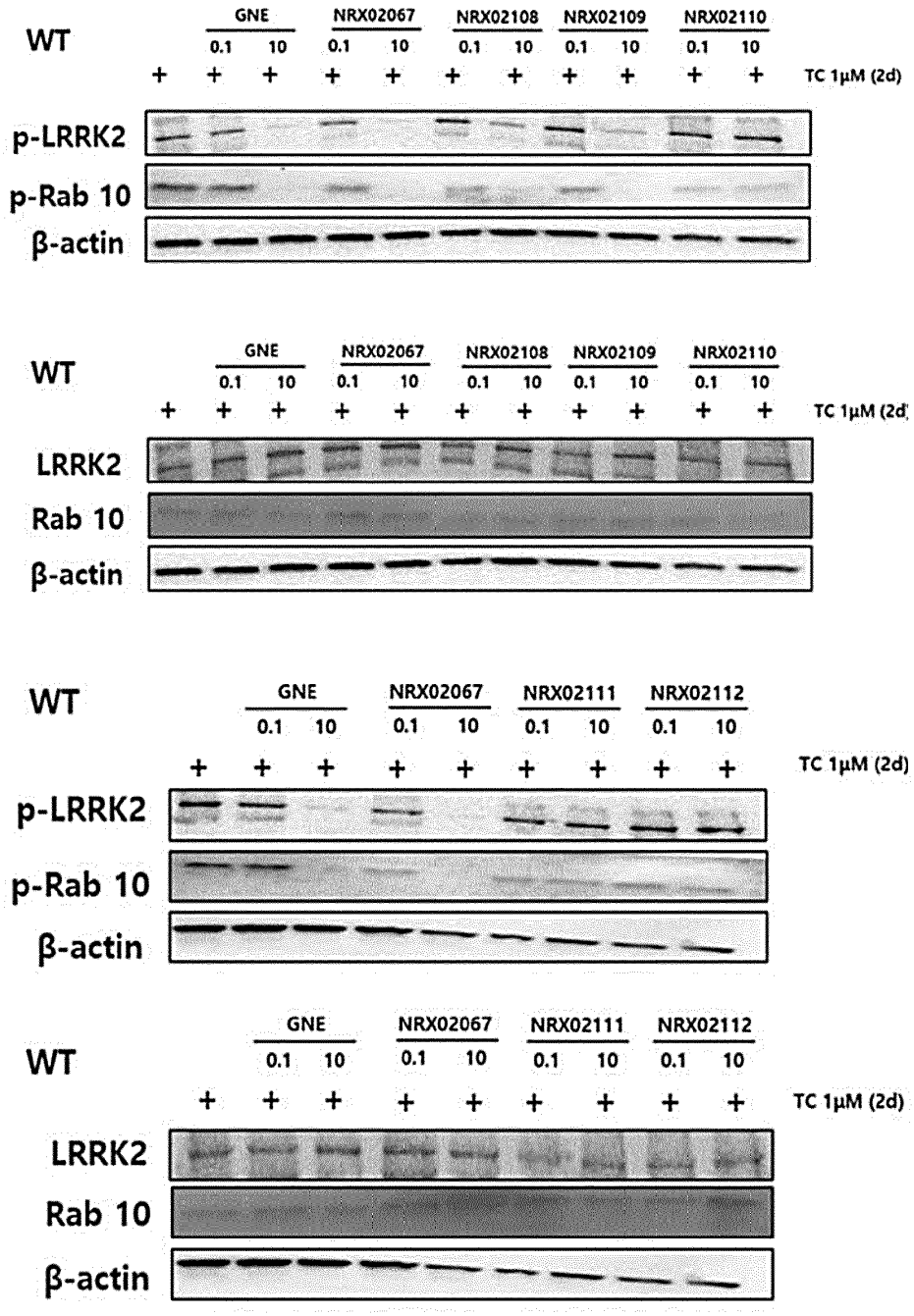
[도4c]


WT
GNE
PF
NRX02097
NRX02099
LK-IN
0.1
10
TC 1 μM (2d)
p-LRRK2
p-Rab 10
β-actin
G2019S
WT
LRRK2
Rab 10
β-actin
G2019S

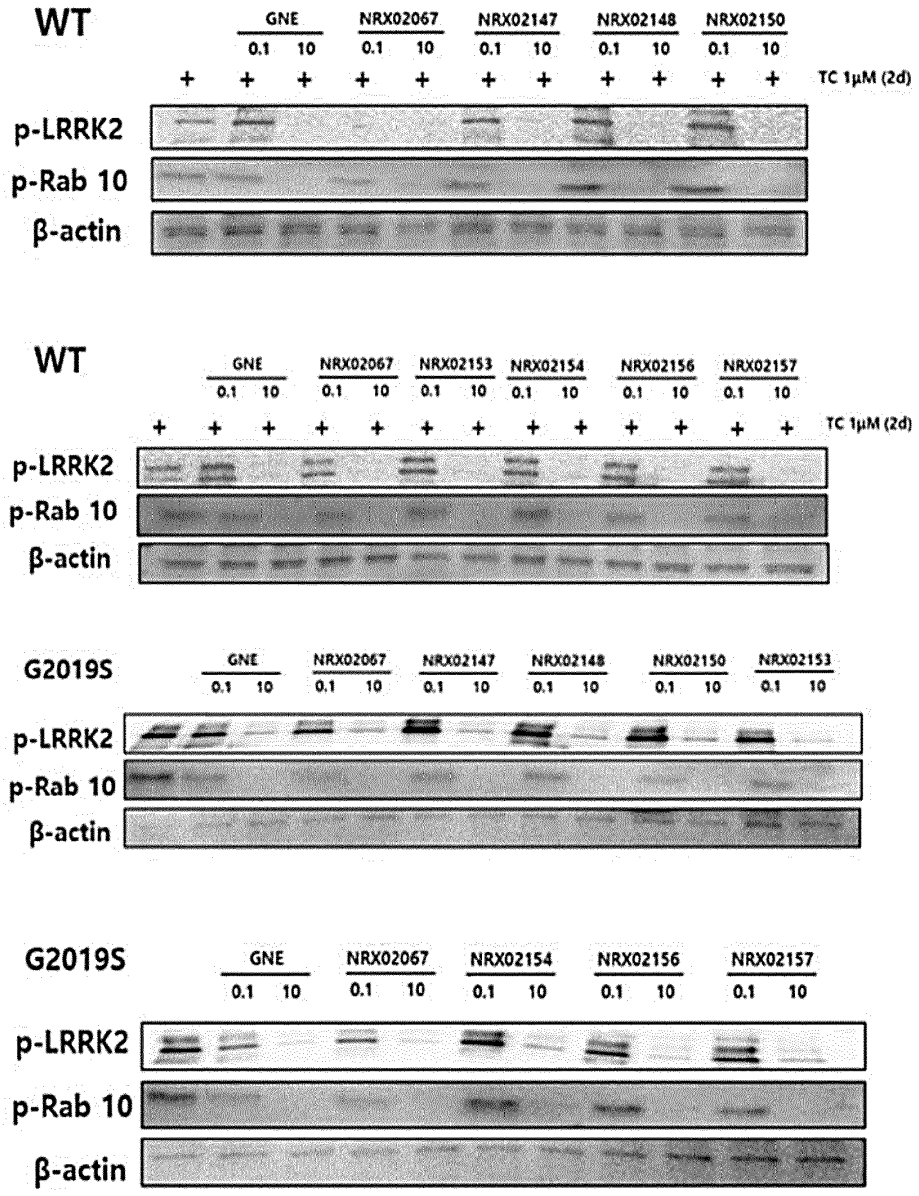
[도4d]


WT
GNE
NRX02067
NRX02104
NRX02105
0.1
10
TC 1μM (2d)
p-LRRK2
p-Rab 10
β-actin
G2019S
LRRK2
Rab 10

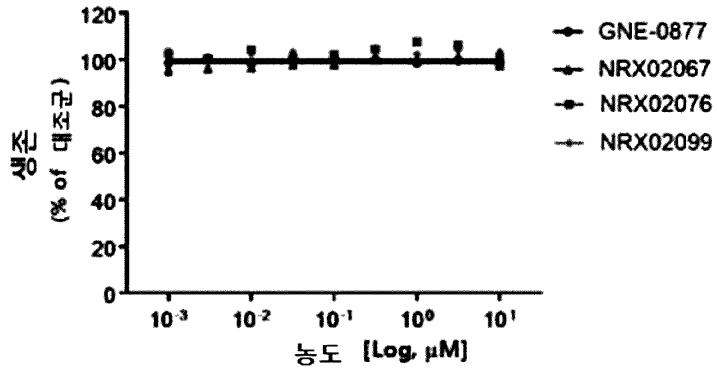
[도4e]

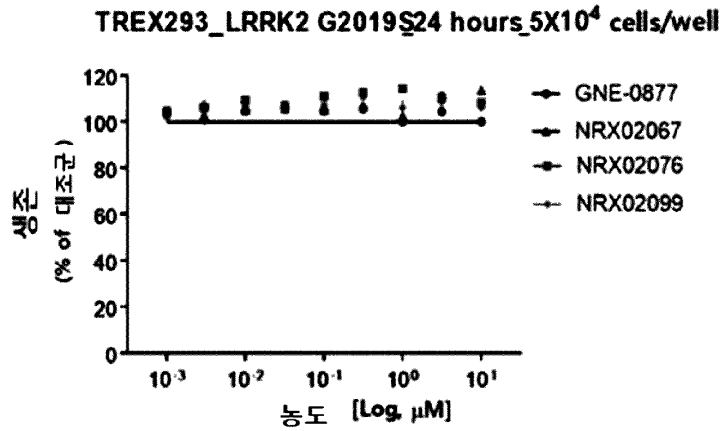

WT
GNE
NRX02067
NRX02108
NRX02109
NRX02110
0.1
10
TC 1μM (2d)
p-LRRK2
p-Rab 10
β-actin
LRRK2
Rab 10
NRX02111
NRX02112

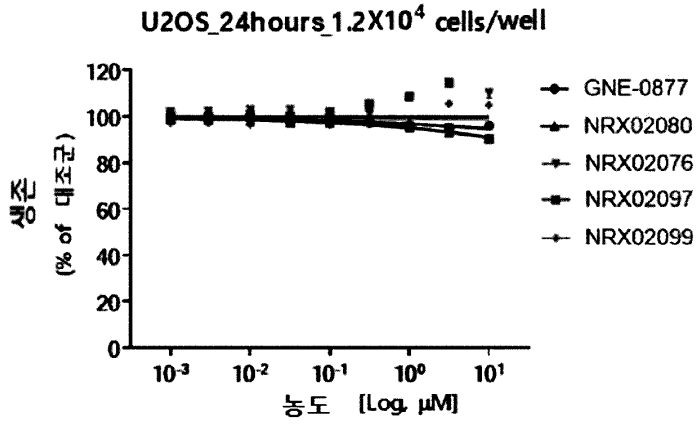
[도4f]


WT
GNE
NRX02067
NRX02147
NRX02148
NRX02150
0.1 10
TC 1μM (2d)
p-LRRK2
p-Rab 10
β-actin
WT
GNE
NRX02067
NRX02153
NRX02154
NRX02156
NRX02157
TC 1μM (2d)
p-LRRK2
p-Rab 10
β-actin
G2019S
GNE
NRX02067
NRX02147
NRX02148
NRX02150
NRX02153
p-LRRK2
p-Rab 10
β-actin
G2019S
GNE
NRX02067
NRX02154
NRX02156
NRX02157
p-LRRK2
p-Rab 10
β-actin

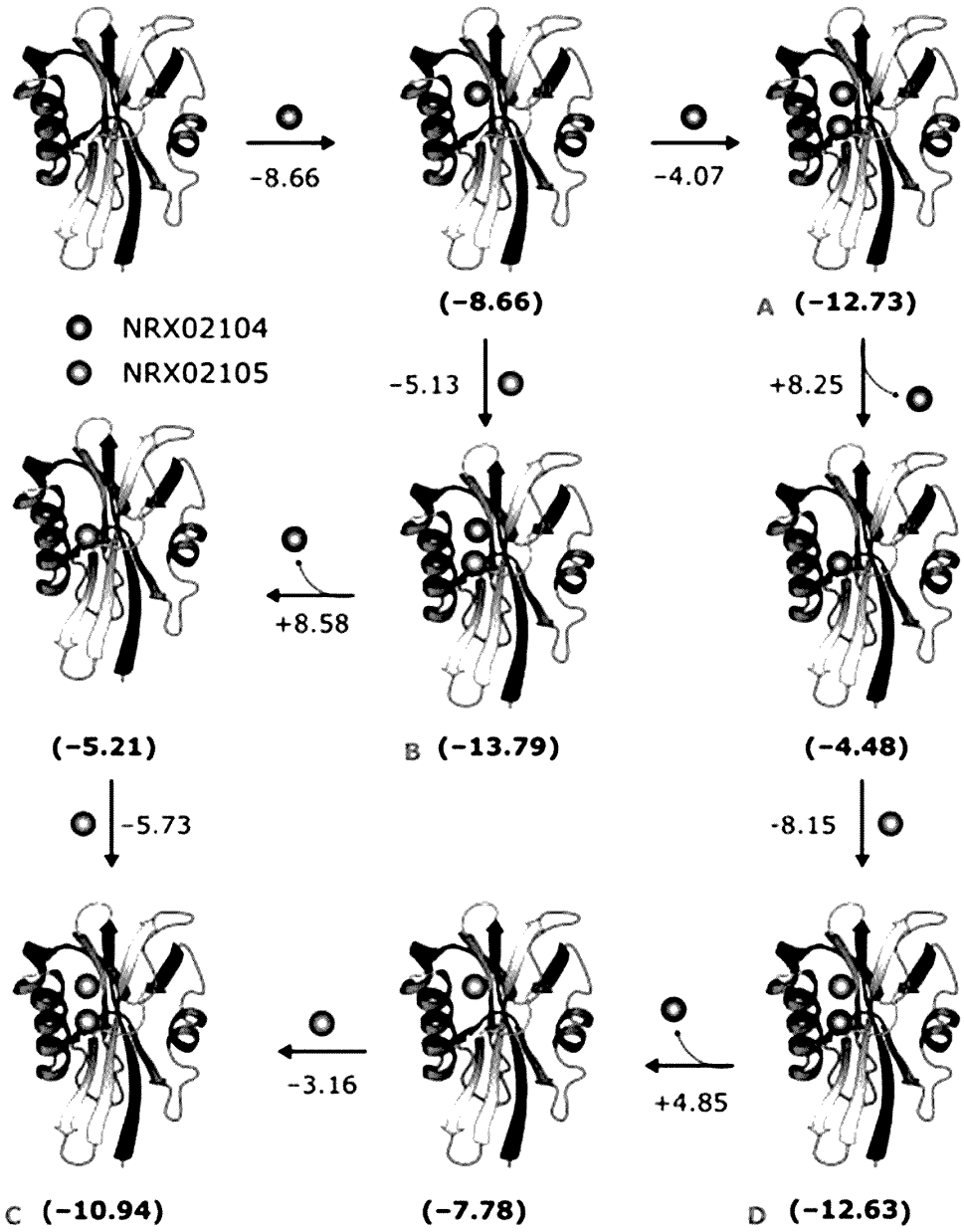
[도5]


120
100
80
60
40
20
0
생존
(% of 대조군)
10-3
10-2
10-1
100
101
농도 [Log, μM]
GNE-0877
NRX02067
NRX02076
NRX02099


TREX293_LRRK2 G2019S24 hours_5X10^4 cells/well
120
100
80
60
40
20
0
생존
(% of 대조군)
10-3
10-2
10-1
100
101
농도 [Log, μM]
GNE-0877
NRX02067
NRX02076
NRX02099


U2OS_24hours_1.2X10^4 cells/well
120
100
80
60
40
20
0
생존
(% of 대조군)
10-3
10-2
10-1
100
101
농도 [Log, μM]
GNE-0877
NRX02080
NRX02076
NRX02097
NRX02099

[도6]


-8.66
-4.07
(-8.66)
A (-12.73)
NRX02104
NRX02105
-5.13
+8.25
+8.58
(-5.21)
B (-13.79)
(-4.48)
-5.73
-8.15
-3.16
+4.85
C (-10.94)
(-7.78)
D (-12.63)