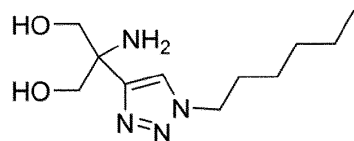
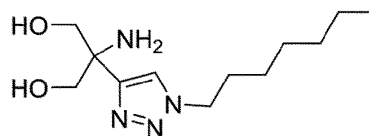


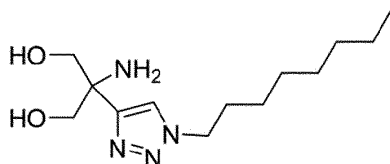
[圖1]



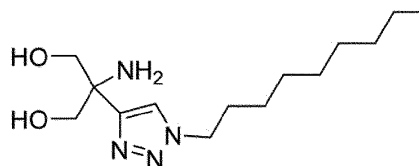
SCNPA 501
Chemical Formula : $C_{11}H_{22}N_4O_2$
Molecular Weight : 242.32



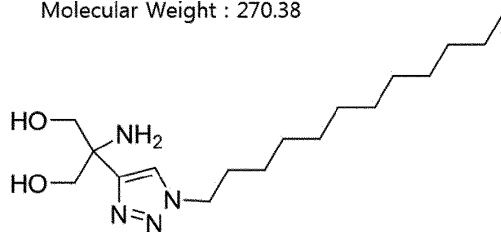
SCNPA 401
Chemical Formula : $C_{12}H_{24}N_4O_2$
Molecular Weight : 257.35



SCNPA 301
Chemical Formula : $C_{13}H_{26}N_4O_2$
Molecular Weight : 270.38

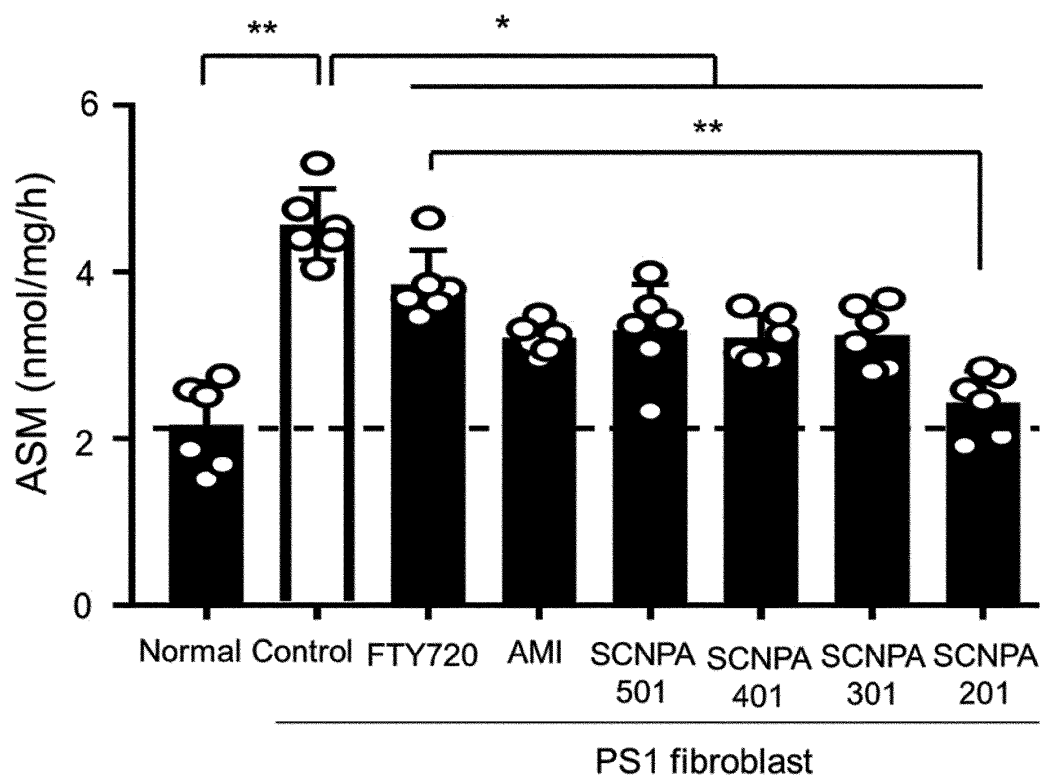


SCNPA 201
Chemical Formula : $C_{14}H_{28}N_4O_2$
Molecular Weight : 284.4

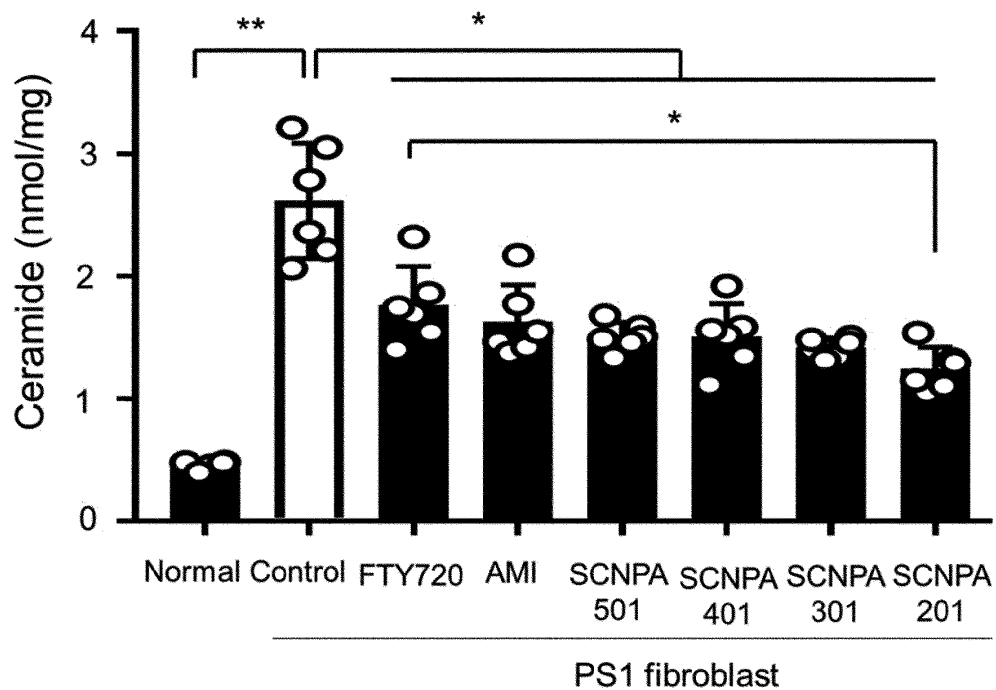


SCNPA 101
Chemical Formula : $C_{17}H_{34}N_4O_2$
Molecular Weight : 362.94

[Figure 2a]



[도2b]

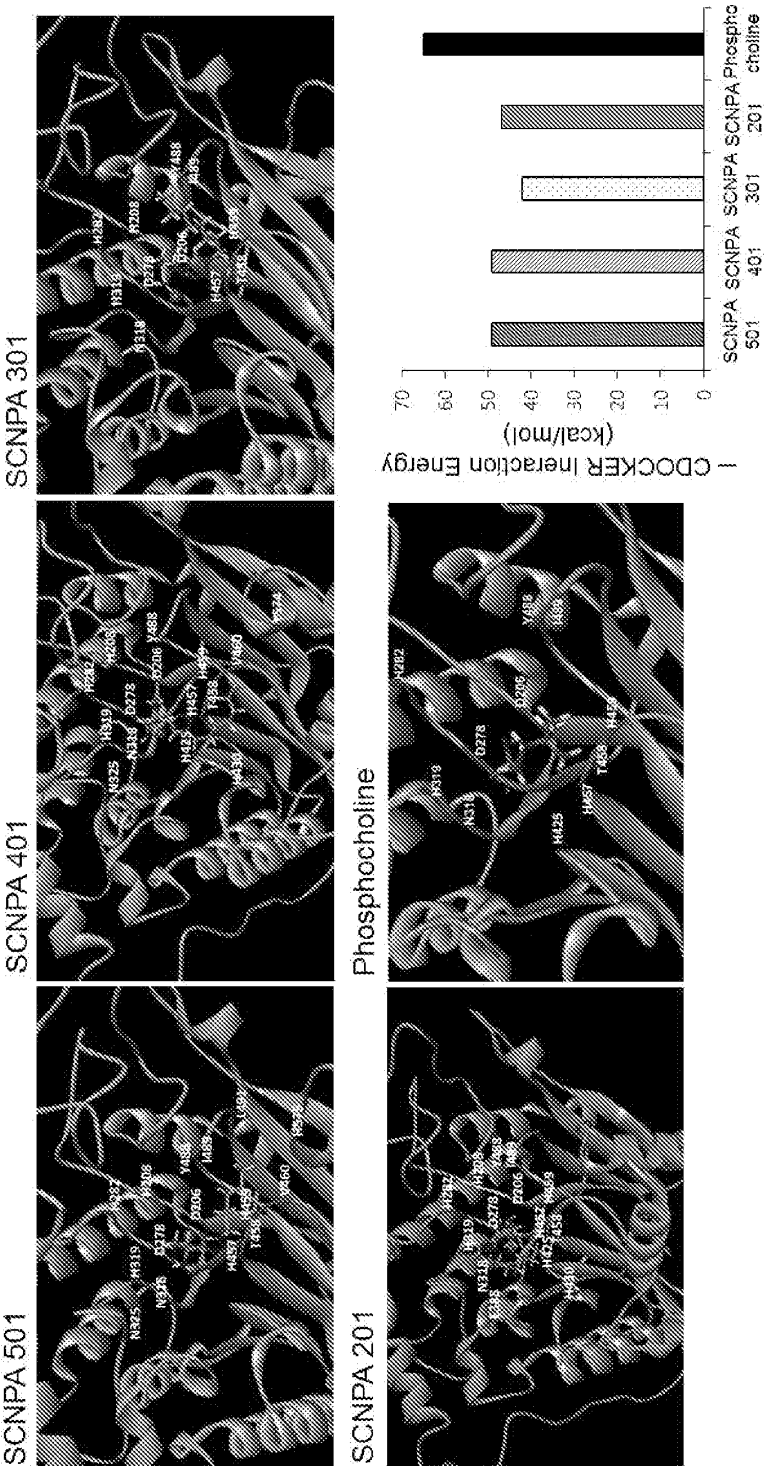


*p < 0.05
 **p < 0.01
 n = 6

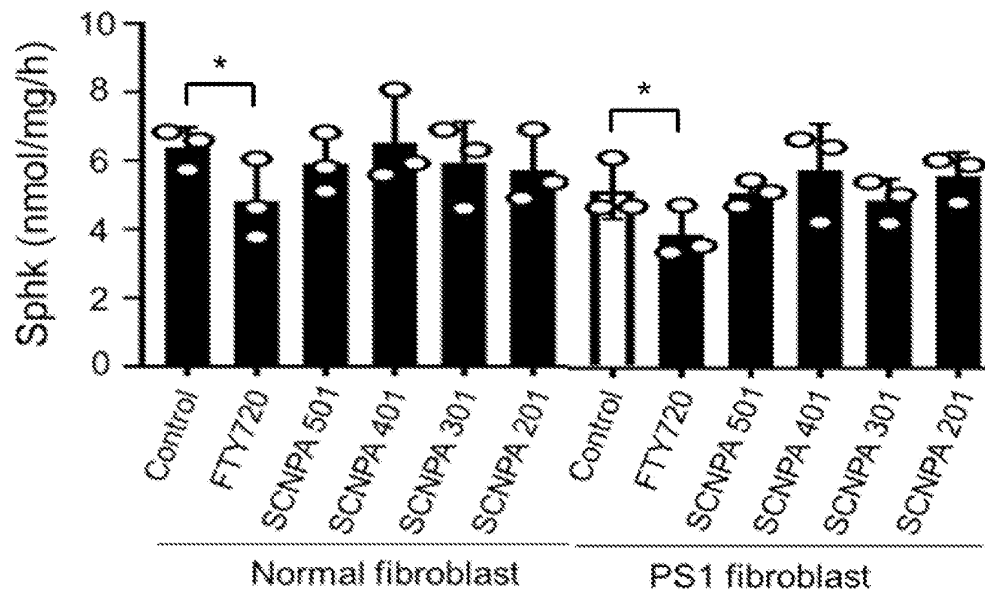
[도3a]

Biochemical IC ₅₀				
Compound	SCNPA 501	SCNPA 401	SCNPA 301	SCNPA 201
ASM IC ₅₀ (uM)	1.86	1.82	1.75	1.14

【도 3b】



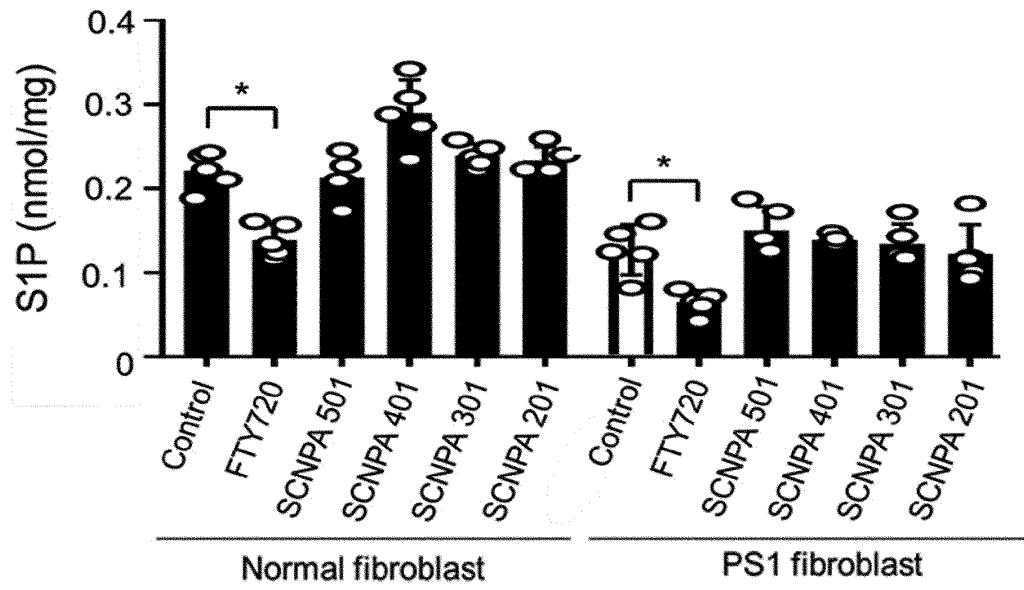
【도 4a】



*p < 0.05

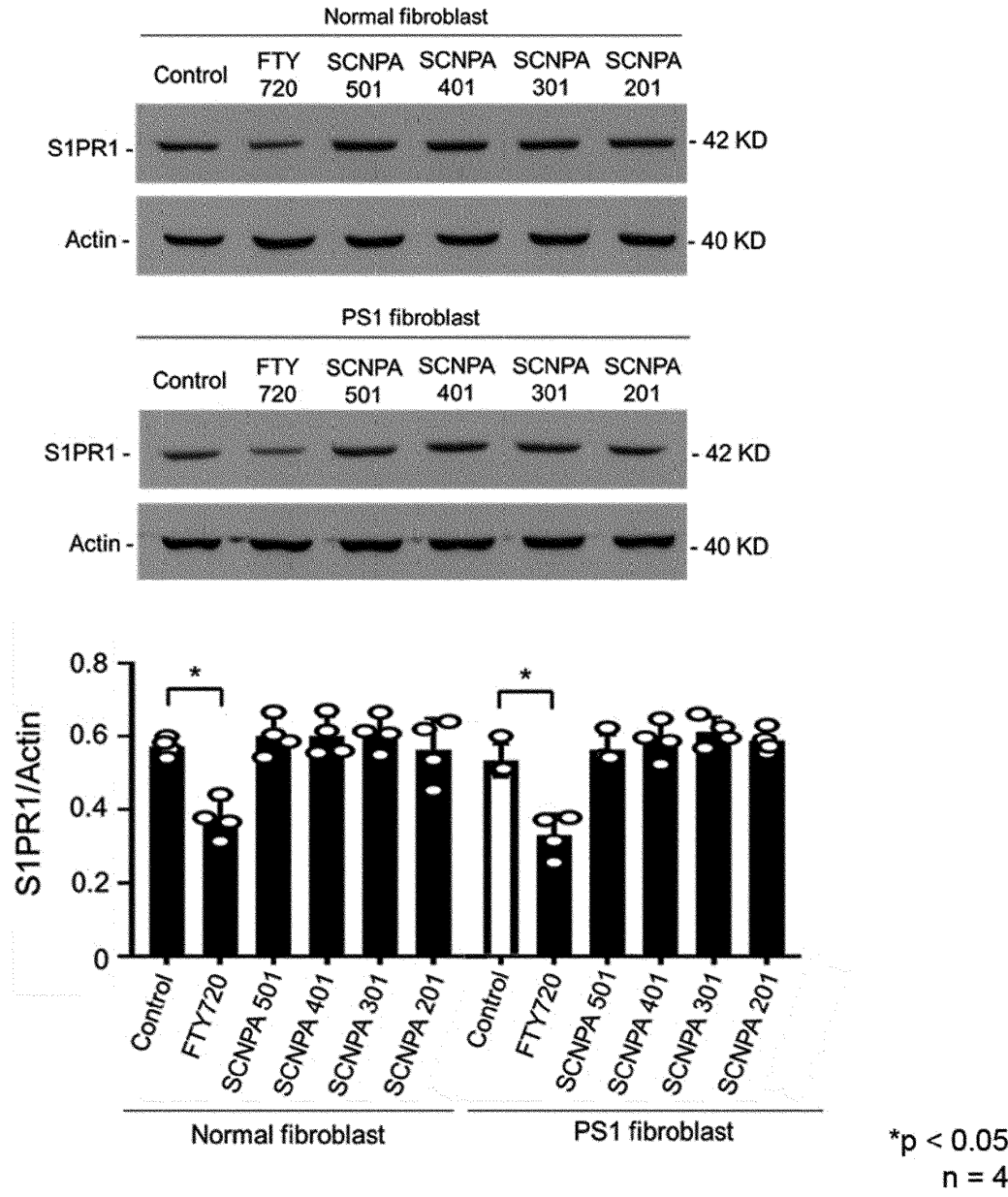
n = 3~5

[도4b]

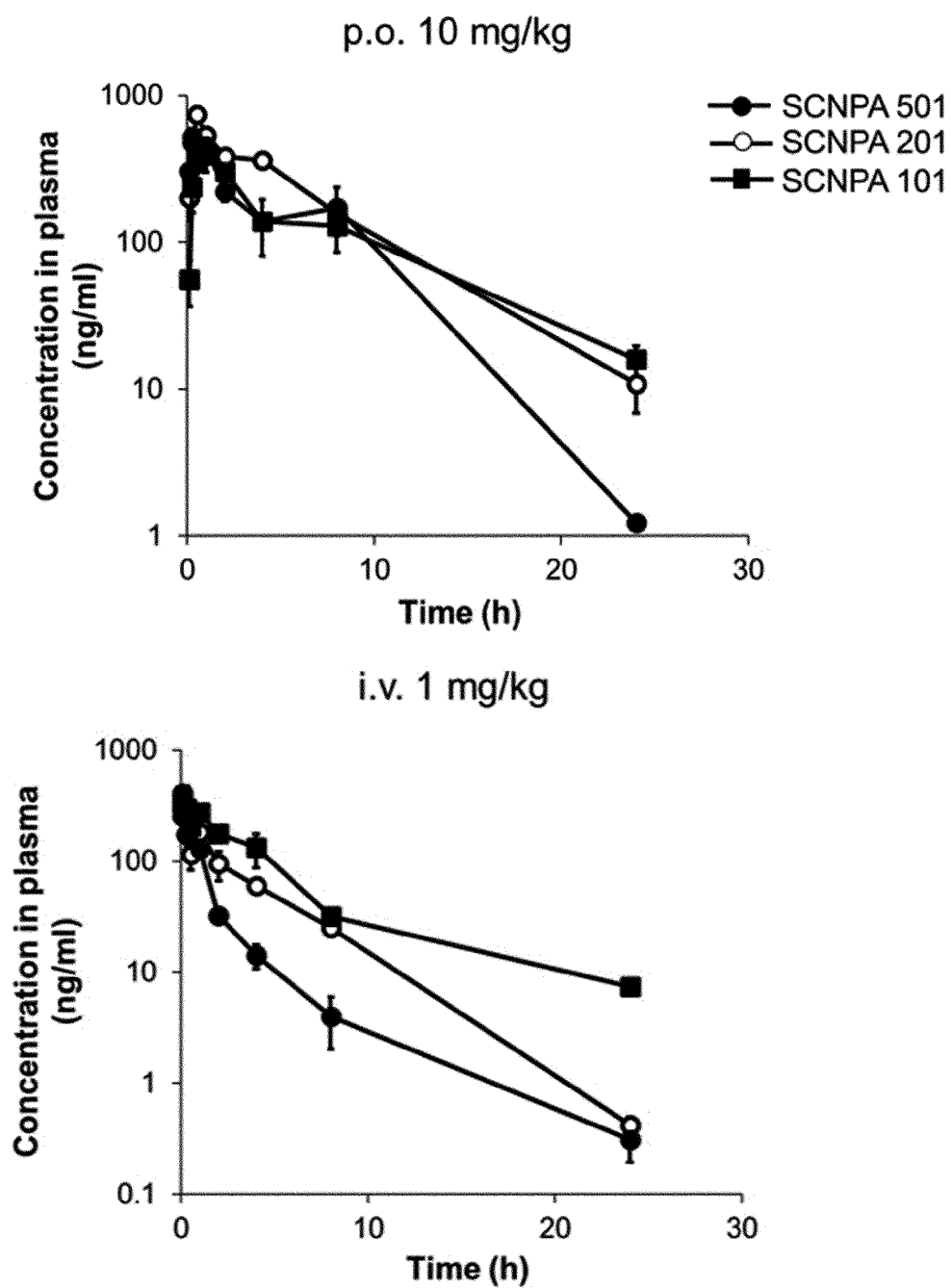


*p < 0.05
n = 3~5

[Figure 4c]



[5a]



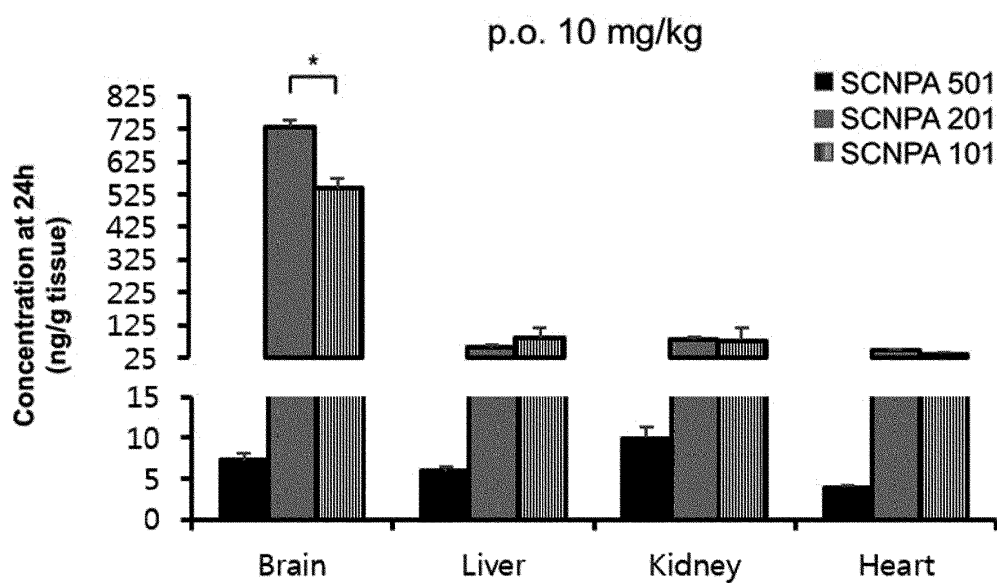
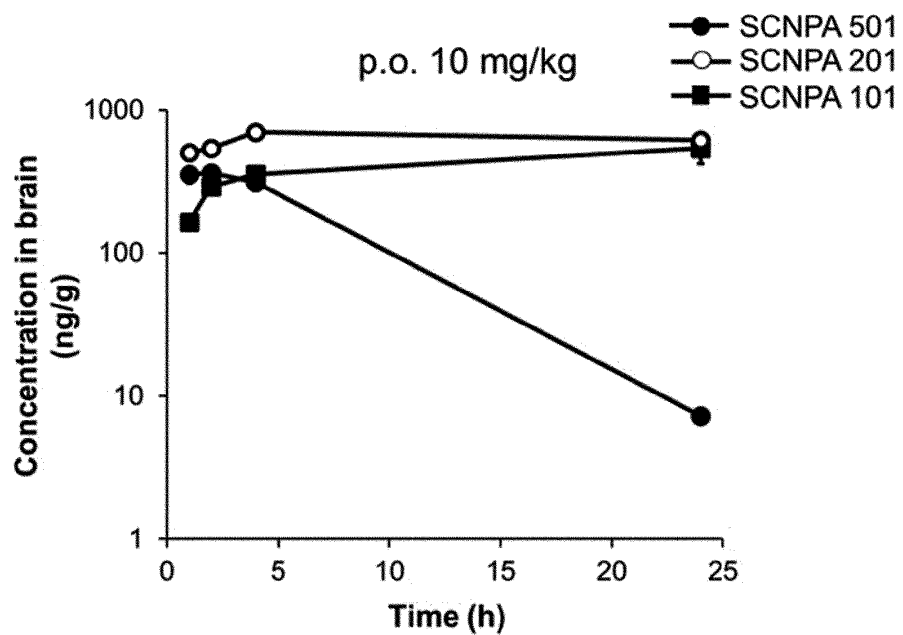
[도5b]

PK parameter (Plasma)	SCNPA 501		SCNPA 201		SCNPA 101	
	p.o.10 mg/kg	i.v.1 mg/kg	p.o.10 mg/kg	i.v.1 mg/kg	p.o.10 mg/kg	i.v.1 mg/kg
AUC _{last} (ng·h/mL)	3128.46±2764.97	427.10±27.85	4158.27±358.61	850.97±80.60	2760.25±936.03	1423.06±207.38
AUC _{inf} (ng·h/mL)	3130.75±2764.59	433.24±29.66	4286.30±250.86	852.16±81.13	2900.65±997.07	1477.10±197.74
Half-life _{plasma} (h)	2.54±0.31	3.14±1.65	4.27±1.44	4.83±0.26	5.99±0.60	5.07±0.95
MRT (h)	4.2±2.05	2.54±0.80	6.09±1.46	3.84±0.5	7.06±0.84	5.47±0.30
C _{max} (ng/mL)	554.74±91.95	/	748.18±225.27	/	438.81±115.98	/
Co (ng/mL)	/	631.89±106.79	/	365.40±293.42	/	525.02±158.25
T _{max} (h)	0.50±0.43	/	0.63±0.31	/	0.58±0.38	/
BA (%)	72.26	/	50.33	/	19.64	/

AUC, Area under curve to last time point; MRT, Mean resident time; BA, Bioavailability

n = 3

[56a]



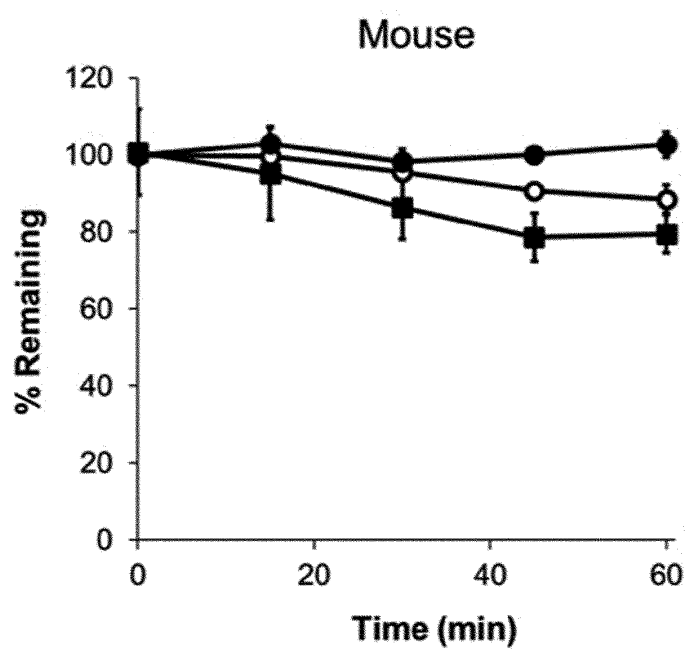
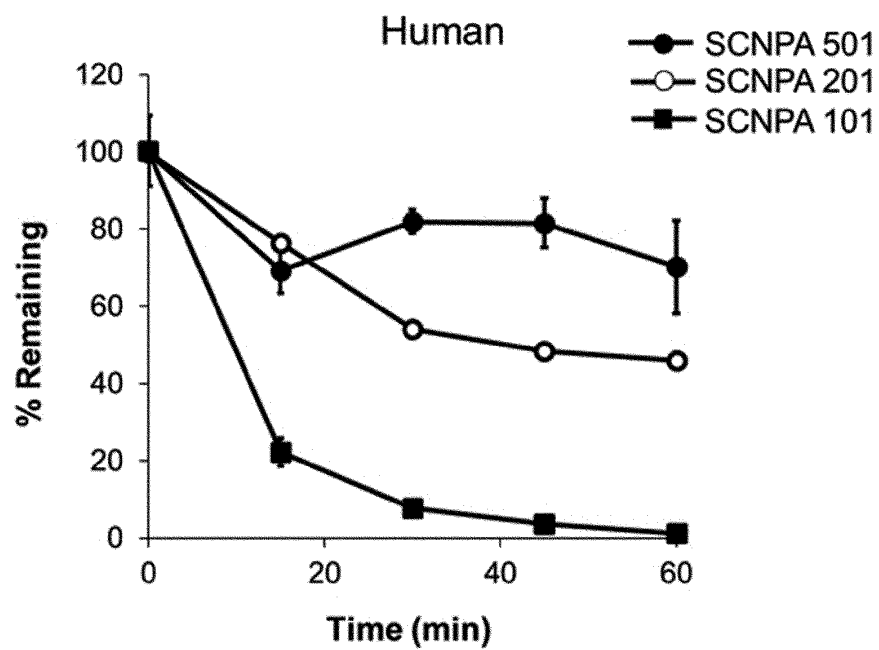
[Table 6b]

PK parameter (Brain)	SCNPA 501	SCNPA 201	SCNPA 101
	p.o. 10 mg/kg	p.o. 10 mg/kg	p.o. 10 mg/kg
AUC _{last} (ng·h/mL)	4424.24±750.22	15124.37±2967.43	9961.12±1911.20
C _{max} (ng/mL)	413.96±36.89	727.58±90.91	545.36±207.55
Co (ng/mL)	/	/	/
T _{max} (h)	2.33±1.53	6.83±8.5	17.33±11.55
MRT (h)	3.83±0.12	11.80±1.38	14.50±2.14
Brain distribution	1.41	3.64	3.61

AUC, Area under curve to last time point; MRT, Mean resident time

n = 3

[57a]

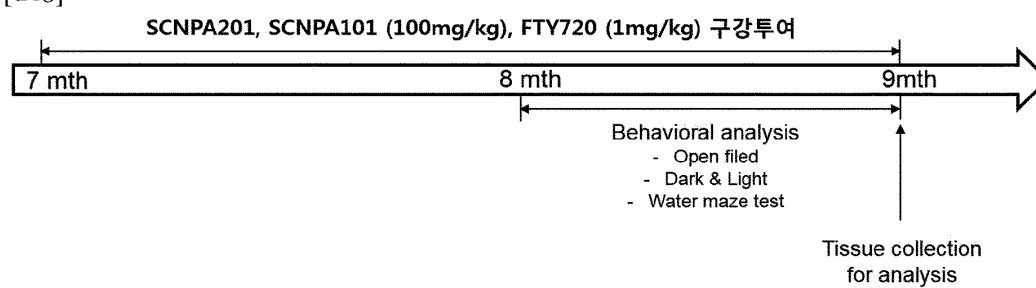


[도7b]

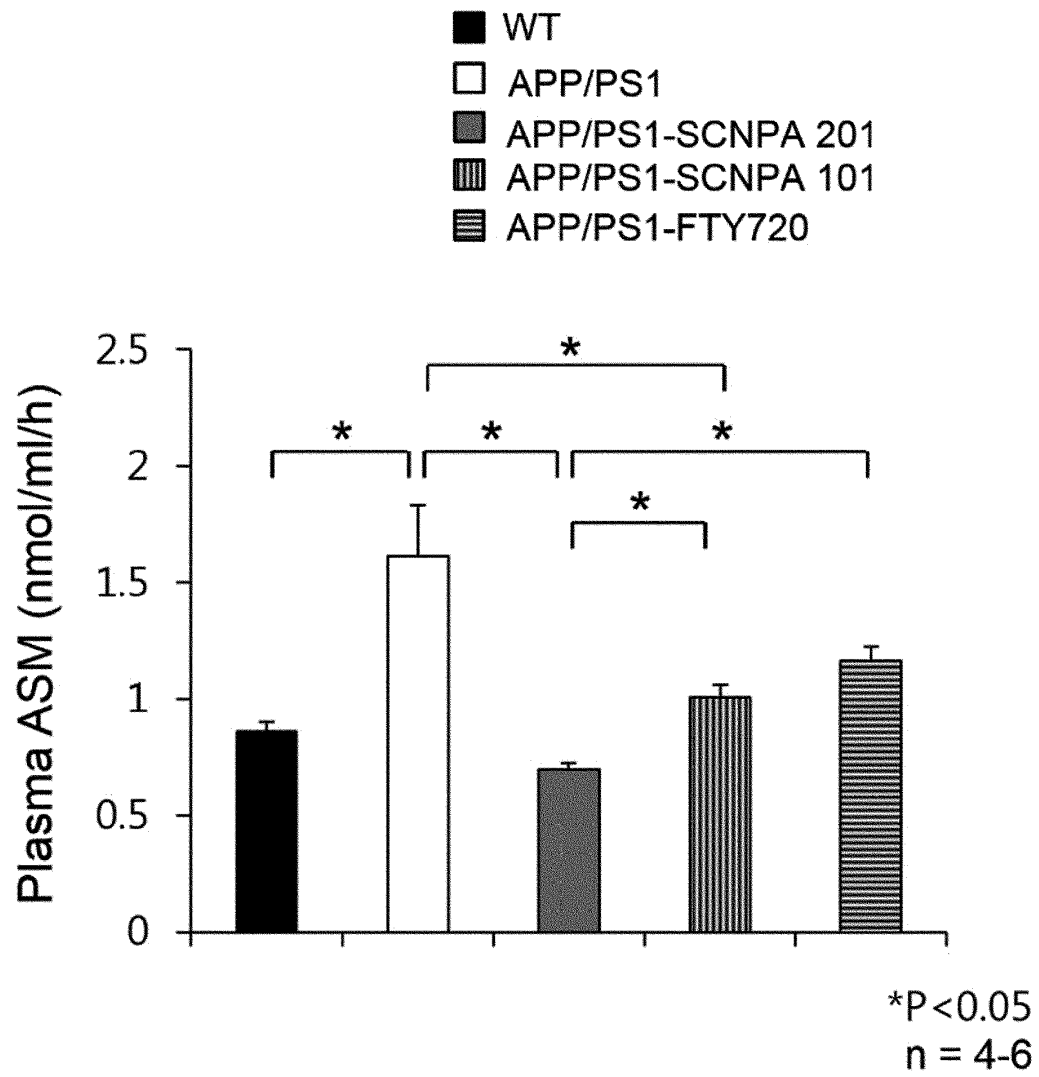
Compound	Microsome	% remaining after 0.5h		half-life
		mean	SD	(h)
SCNPA 501	Human	82.01	3.08	3.12
	Mouse	98.21	3.24	41.71
SCNPA 201	Human	54.17	0.62	0.85
	Mouse	95.66	1.28	5.13
SCNPA 101	Human	7.80	1.43	0.16
	Mouse	86.36	8.13	2.57

n = 3

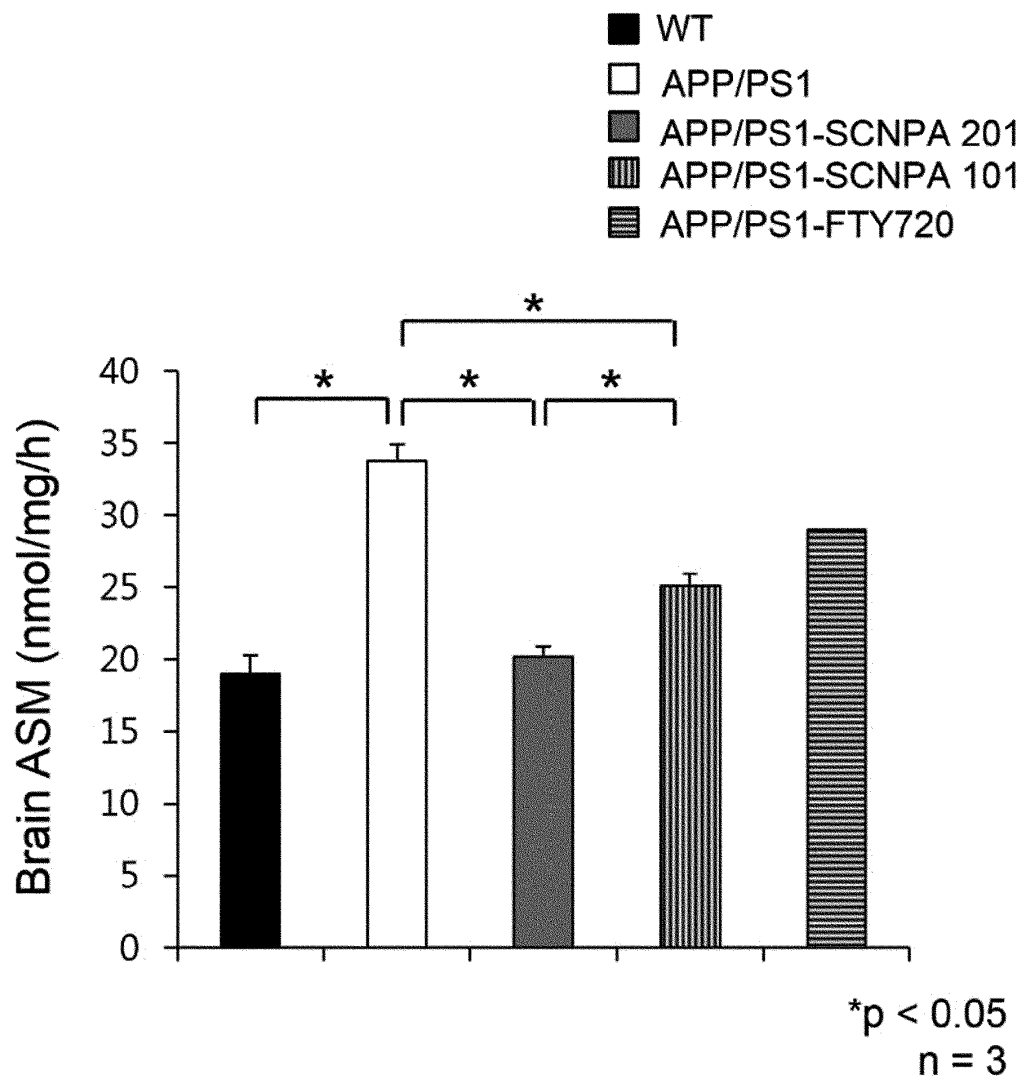
[도8]



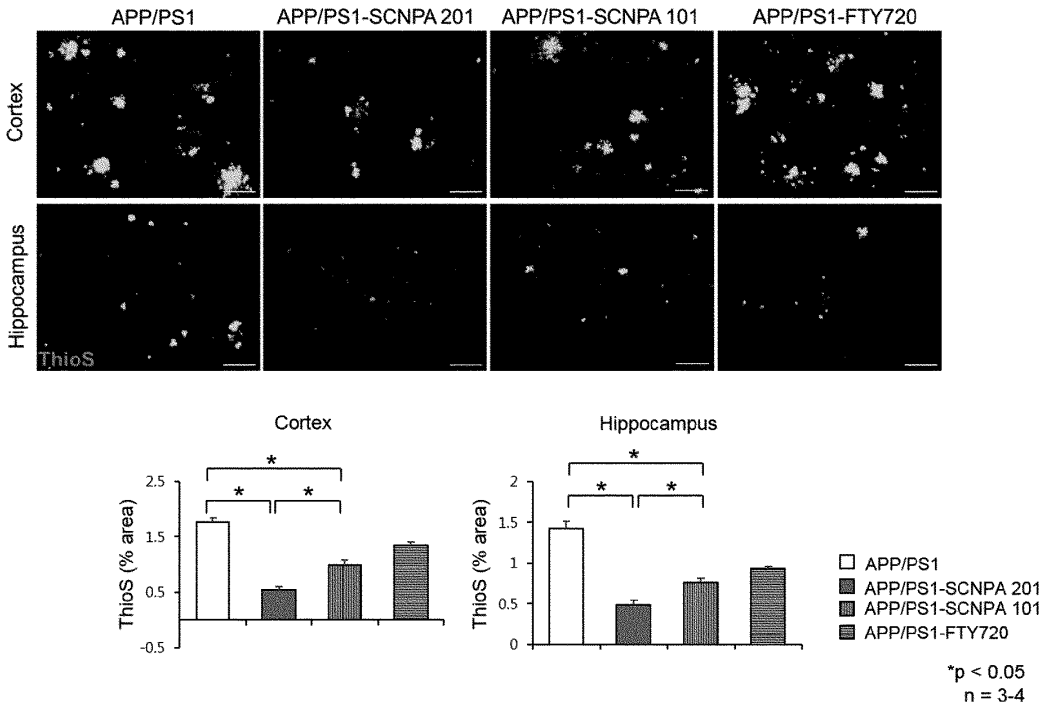
[Figure 9a]



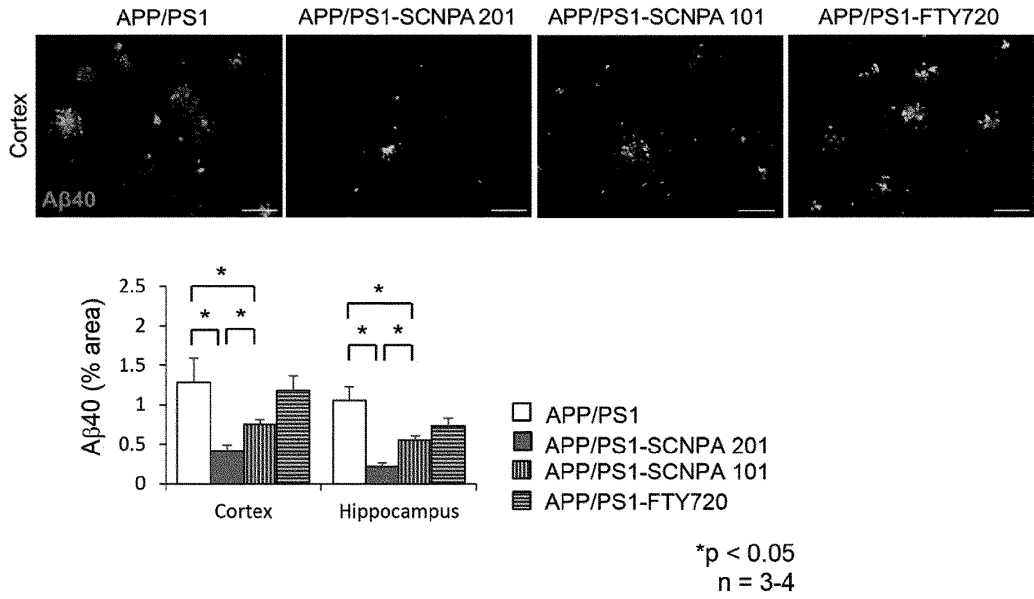
[도9b]



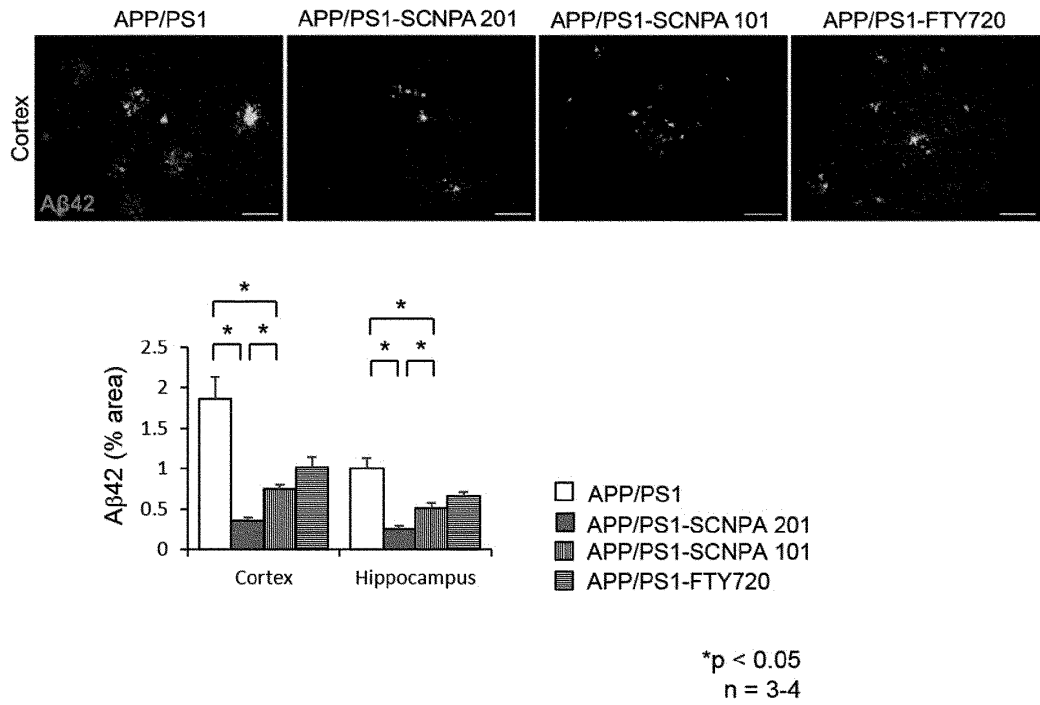
[Figure 10]



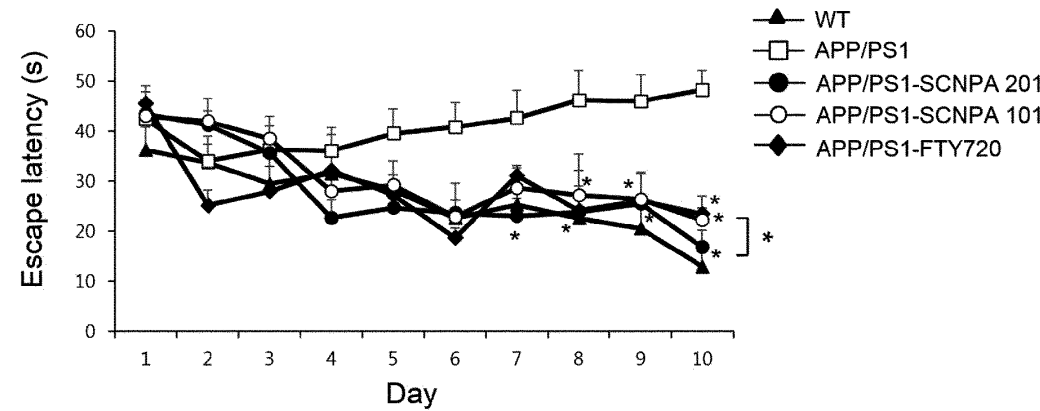
[Figure 11a]



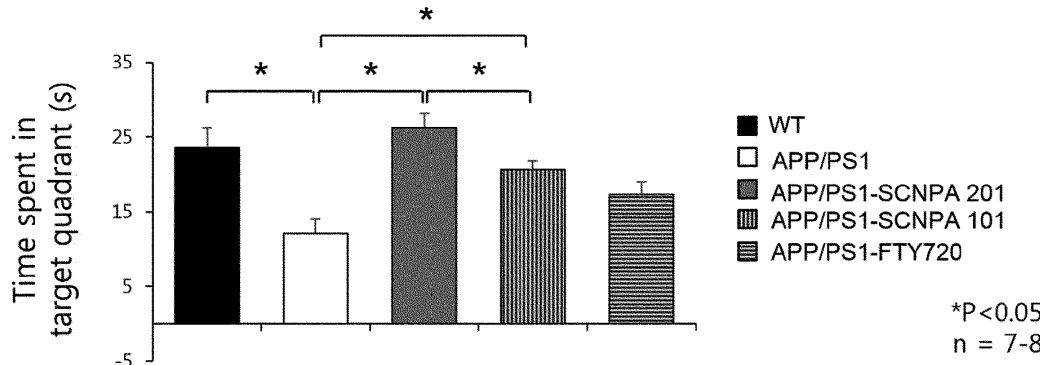
[Figure 11b]



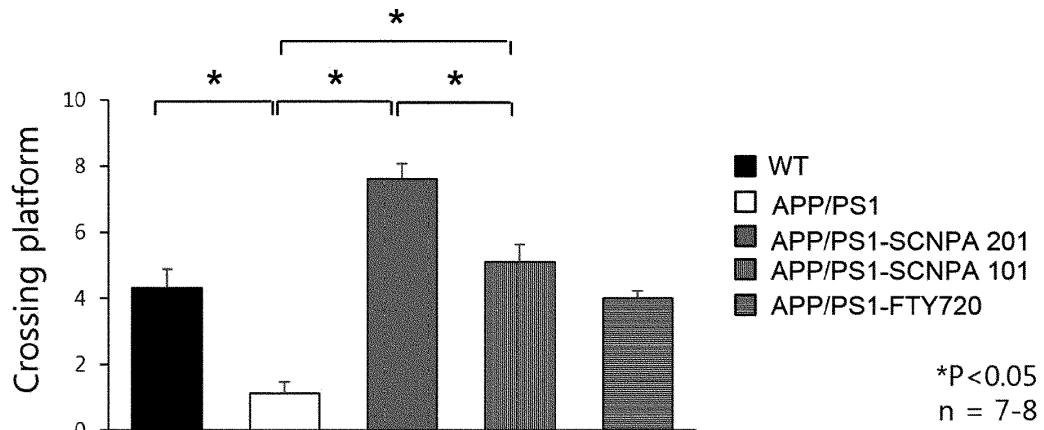
[Figure 12a]



[Figure 12b]

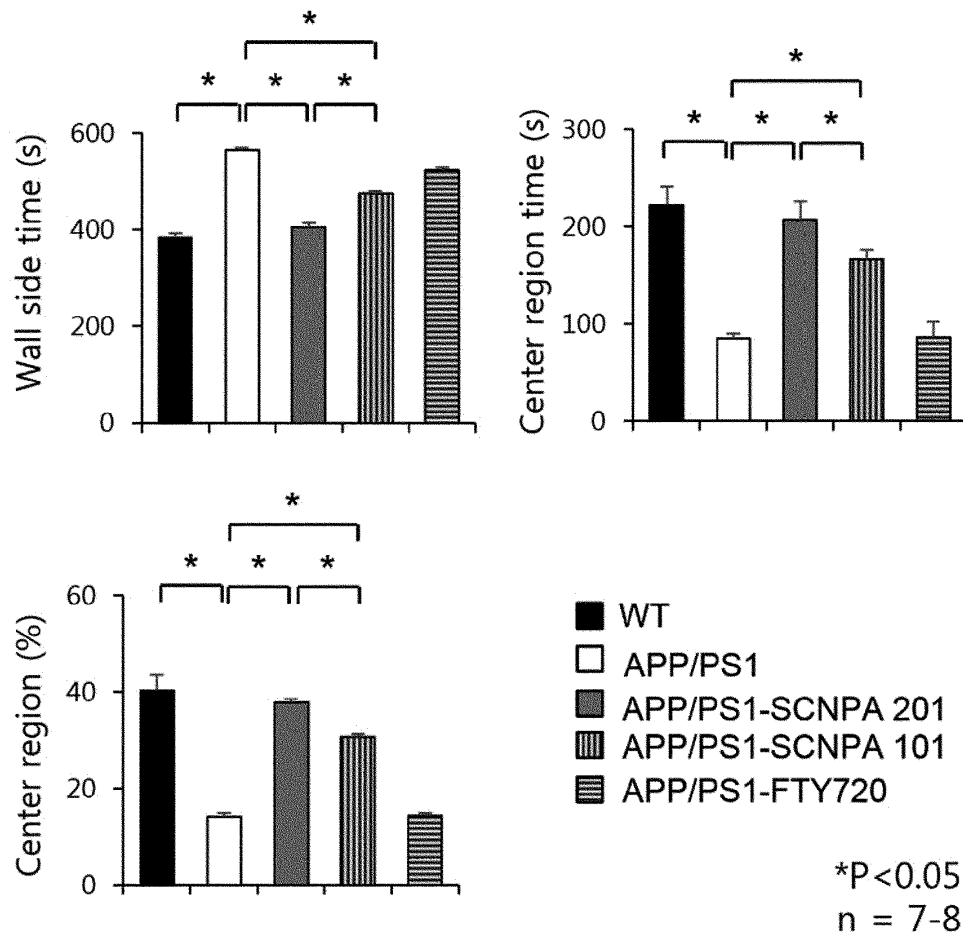


[도12c]



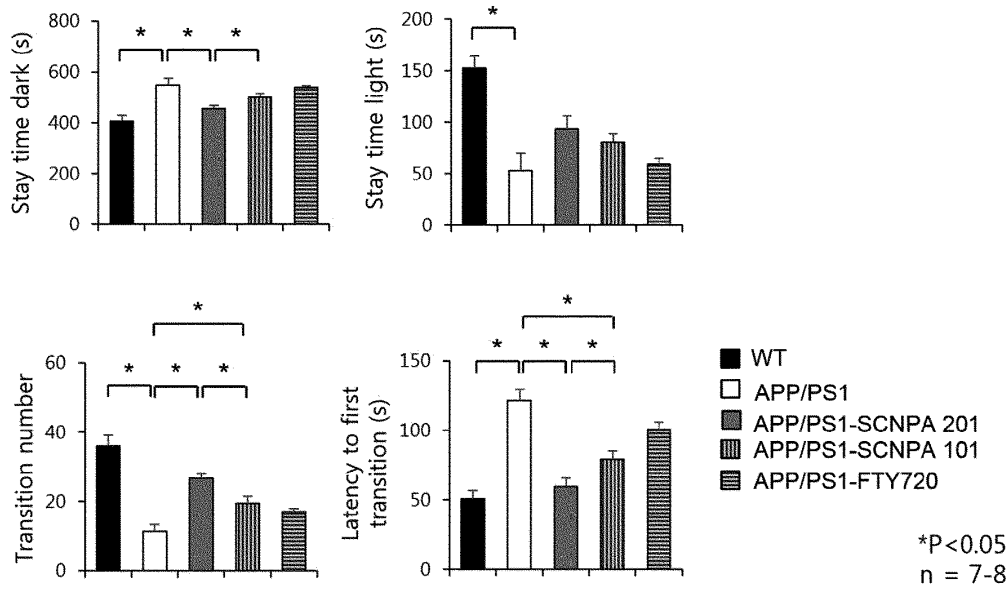
[도13a]

Open field

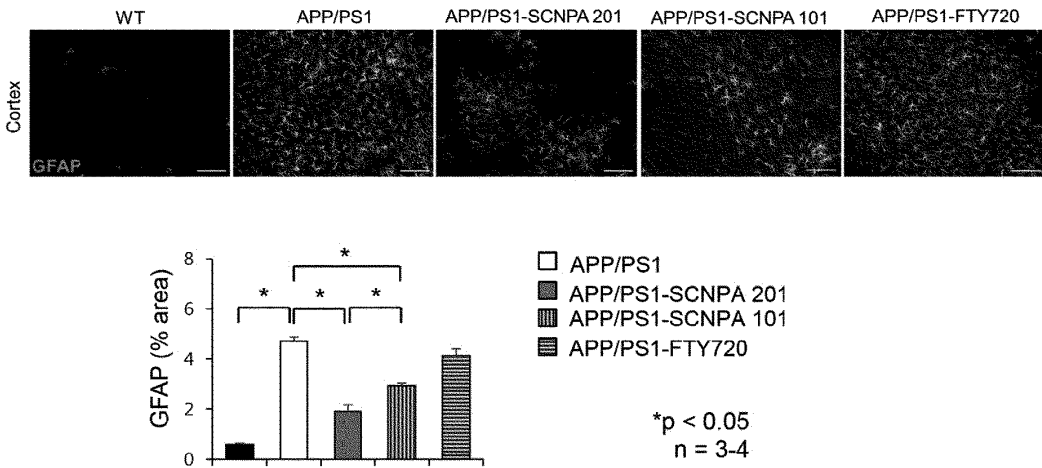


[도13b]

Dark & Light



[도14a]



[도14b]

