

Figure S1. The durability of Acu's therapeutic effects.

(A) Coefficient of sucrose preference in the SPT. (B) The duration of immobility in the TST for 5 min. (C) The duration of immobility in the FST for 5 min. (D) Social Interaction Ratio for the SIT. n = 10 mice/group. One-way ANOVA with Dunnett's multiple comparisons test. Data are represented as the mean \pm SEM. Compared with Control group ^{##}P < 0.01, ^{###}P < 0.001; Compared with CSDS group *P < 0.05, **P < 0.01, ***P < 0.001. n.s., no significant difference.



Figure S2. c-Fos expression in dCA1.

(A) The c-Fos expression in dCA1 area. Scale bar, 100 μ m. (B) Statistical results of c-Fos positive cells, n = 6 mice/group. Ordinary one-way ANOVA with Dunnett's multiple comparisons test. Data are represented as the mean \pm SEM. n.s., no significant difference.



Figure S3. c-Fos expression in DG.

(A) The c-Fos expression in DG area. Scale bar, 100 μ m. (B) Statistical results of c-Fos positive cells, n = 3 mice/group. Ordinary one-way ANOVA with Dunnett's multiple comparisons test. Data are represented as the mean \pm SEM. n.s., no significant difference.





CSDS and Acu treatment

(A) Resting membrane potential (RMP) of pyramidal neurons in vCA1. (B) Membrane resistance (Rm) of pyramidal neurons in vCA1. (C) Membrane capacitance (Cm) of pyramidal neurons in vCA1. (D) Threshold of pyramidal neurons in vCA1. (E) Rheobase of pyramidal neurons in vCA1. n = 10 neurons from 3 mice/group, respectively. One-way ANOVA with Tukey's multiple comparisons test. Data are represented as the mean \pm SEM. ***P<0.001. n.s., no significant difference.



Figure S5. Correlations between activity of vCA1 pyramidal neurons and TST

(A) Correlations between the activity of vCA1 pyramidal neurons and the immobility time in the TST (Pearson correlation coefficient, R = -0.69, P = 0.0043). (B)

Correlations between PEAK in vCA1 pyramidal neurons and the immobility time in the TST (Pearson correlation coefficient, R = -0.6, P = 0.018).



Figure S6. Inhibitory transmission in vCA1 pyramidal neurons.

(A) Representative traces of sIPSCs recorded from vCA1 pyramidal neurons. (B, C) Average sIPSCs amplitude (B) and frequency (C) in Control (yellow), CSDS (red) and Acu (blue) groups. n = 10 cells from 3 mice/group (For all figures: Kolmogorov-Smirnov test). (D) Correlations between sIPSC amplitude in vCA1 pyramidal neurons and TST in control, CSDS and Acu mice, respectively. Data are represented as the mean \pm SEM. *P < 0.05, n.s., no significant difference.



Figure S7. p-GluA2 expression induced by Acu treatment in the hippocampus (A) Representative immunoblots of p-GluA2 in hippocampal extracts. (B) Quantification of p-GluA2, n = 5 mice/group (Ordinary one-way ANOVA with Dunnett's multiple comparisons test). (C) Correlations between p-GluA2 protein level in hippocampus and SPT (Pearson correlation coefficient, R = -0.68, P = 0.0011). (D) Correlations between p-GluA2 protein level in hippocampus and TST (Pearson correlation coefficient, R = 0.31, P = 0.19). Data are represented as the mean \pm SEM. *P < 0.05, n.s., no significant difference.



Figure S8. Correlations between protein levels in hippocampus and TST

(A) Correlations between pCaMKII protein level in hippocampus and TST (Pearson correlation coefficient, R = -0.49, P = 0.028). (B) Correlations between p-GluA1 protein level in hippocampus and TST (Pearson correlation coefficient, R = -0.41, P = 0.072). (C) Correlations between BDNF protein level in hippocampus and TST (Pearson correlation coefficient, R = -0.66, P = 0.0016).

Supplementary Table 1

Statistics reporting, by figure

		Sample size	Statistical test	Treatment		Significa
		(figure order)	Statistical test	effect		nce
Figure 1						
	SPT of three groups	n = 10 mice/group.	One-way ANOVA (Tukey's multiple comparisons test)	F (3, 36) = 3.160	P = 0.036	P < 0.05
В	Control vs. CSDS				P = 0.002	P < 0.01
	CSDS vs. Acu				P < 0.001	P < 0.001
	CSDS vs. Non-Acu				P = 0.593	n.s.
	TST of three groups	n = 10 mice/group.	One-way ANOVA (Tukey's multiple comparisons test)	F (3, 36) = 4.860	P = 0.006	P < 0.01
C	Control vs. CSDS				P = 0.022	P < 0.05
	CSDS vs. Acu				P < 0.001	P < 0.001
	CSDS vs. Non-Acu				P = 0.963	n.s.
	FST of three groups	n = 10 mice/group.	One-way ANOVA (Tukey's multiple comparisons test)	F (3, 36) = 0.9457	P = 0.429	n.s.
D	Control vs. CSDS				P < 0.001	P < 0.001
	CSDS vs. Acu				P < 0.001	P < 0.001
	CSDS vs. Non-Acu				P = 0.938	n.s.
	SIR of three groups	n = 10 mice/group.	One-way ANOVA (Tukey's multiple comparisons test)	F (3, 36) = 2.857	P = 0.050	n.s.
F	Control vs. CSDS				P < 0.001	P < 0.001
	CSDS vs. Acu				P = 0.030	P < 0.05
	CSDS vs. Non-Acu				P = 0.562	n.s.
G	Interaction time of three groups	n = 10 mice/group.	Two-way ANOVA (Tukey's multiple comparisons test)	F (3, 72) = 5.647	P = 0.002	P < 0.01
	No target: Control vs. No target: CSDS				P > 0.999	n.s.
	No target: CSDS vs. No target: Acu				P = 0.999	n.s.
	No target: CSDS vs. No target: Non- Acu				P > 0.999	n.s.
	No target: Control vs. Target: Control				P = 0.027	P < 0.05
	Target: Control vs. Target: CSDS				P < 0.001	P < 0.001
	Target: CSDS vs. Target: Acu				P = 0.965	n.s.
	Target: CSDS vs. Target: Non-Acu				P = 0.990	n.s.

			One-way ANOVA			
	OFT of three groups	n = 10 mice/group.	(Tukey's multiple	F(3, 36) = 0.4390	P = 0.726	n.s.
			comparisons test)			
Ι	Control vs. CSDS				P = 0.973	n.s.
	CSDS vs. Acu				P = 0.908	n.s.
	CSDS vs. Non-Acu				P = 0.861	ns
			One-way ANOVA		1 0.001	11.5.
	OFT of three groups	n = 10	(Tukov's multiple	E(2, 26) - 1,284	P = 0.204	n 6
	OF I of three groups	mice/group.	(Tukey's multiple	г (3, 30) – 1.284	P - 0.294	n.s.
J	Controlor CCDS		comparisons test)		D = 0.800	
	Control vs. CSDS				P = 0.800	n.s.
	CSDS vs. Acu				P = 0.965	n.s.
	CSDS vs. Non-Acu				P = 0.990	n.s.
Figure 2						
			One-way ANOVA			
	c-Fos of three groups	n = 3 mice/group.	(Tukey's multiple	F (2, 9) = 15.22	P = 0.001	P = 0.01
D			comparisons test)			
	Control vs. CSDS				P = 0.002	P < 0.01
	CSDS vs. Acu				P = 0.004	P < 0.01
		n = 10 neurons	One-way ANOVA			
	Fring frequency of three groups	from 3	(Tukey's multiple	F (2, 27) = 21.87	P < 0.001	P < 0.001
Н		mice/group.	comparisons test)			
	Control vs. CSDS				P < 0.001	P < 0.001
	CSDS vs. Acu				P < 0.001	P < 0.001
Figure 3						
			Ordinary one-way			
	TST AUC of three groups	n = 5 mice/group.	ANOVA (Dunnett's		P = 0.003	P < 0.01
			multiple	F (2, 171) = 5.994		
E			comparisons test)			
	CSDS vs. Control				P = 0.020	P < 0.05
	CSDS vs. Acu				P < 0.001	P < 0.001
			Ordinary one-way			
			ANOVA (Dunnett's	F (1.165, 4.661) =		
	TST PEAK of three groups	n = 5 mice/group.	multiple		P = 0.007	P < 0.01
F			comparisons test)	17107		
	CSDS vs. Control				P = 0.040	P < 0.05
	CSDS vs. Acu				P < 0.001	P < 0.001
	CSDS VS. Acu		Ordinary and war		1 < 0.001	1 < 0.001
I			ANOVA (Dupport's	F (2, 102) = 1.975 P = 0.14		
	NSF AUC of three groups $n = 5$ mice/group	n = 5 mice/group.	ANOVA (Dunnett's		P = 0.144	n.s.
			multiple			
			comparisons test)		D	
	CSDS vs. Control				P = 0.003	P < 0.01
	CSDS vs. Acu				P = 0.002	P < 0.01

J	NSF PEAK of three groups CSDS vs. Control	n = 5 mice/group.	Ordinary one-way ANOVA (Dunnett's multiple comparisons test)	F (1.714, 6.856) = 9.869	P = 0.11 P = 0.040	n.s. P < 0.05
	CSDS vs. Acu				P = 0.039	P < 0.05
Figure 4						
В	sEPSC Amplitude of three groups	n = 10 neurons from 3 mice/group.	Kolmogorov- Smirnov test			
	Control vs. CSDS				P = 0.0149	P < 0.05
	CSDS vs. Acu				P = 0.0149	P < 0.05
	sEPSC Frequency of three groups	n = 10 neurons from 3 mice/group.	Kolmogorov- Smirnov test			
C	Control vs. CSDS				P = 0.003	P < 0.01
	CSDS vs. Acu				P = 0.003	P < 0.01
	AMPA/NMDA ratio of three groups	n = 10 neurons from 3 mice/group.	One-way ANOVA (Tukey's multiple comparisons test)	F (2, 27) = 5.605	P = 0.009	P < 0.01
E	Control vs. CSDS				P = 0.016	P < 0.05
	CSDS vs. Acu				P = 0.024	P < 0.05
Figure 5						
В	golgi of three groups	n = 5 mice/group.	Ordinary one-way ANOVA (Dunnett's multiple comparisons test)	F (3, 96) = 0.9563	P = 0.417	n.s.
	CSDS vs. Control				P = 0.002	P < 0.01
	CSDS vs. Acu				P < 0.001	P < 0.001
	CSDS vs. Non-Acu				P = 0.242	n.s.
E	WB of three groups	n = 5 mice/group.	Ordinary one-way ANOVA (Dunnett's multiple comparisons test)	F (3, 16) = 0.4722	P = 0.706	n.s.
	CSDS vs. Control				P = 0.012	P < 0.05
	CSDS vs. Acu				P = 0.029	P < 0.05
	CSDS vs. Non-Acu				P = 0.568	n.s.
F	WB of three groups	n = 5 mice/group.	Ordinary one-way ANOVA (Dunnett's multiple comparisons test)	F (3, 16) = 1.970	P = 0.159	n.s.

	CSDS vs. Control				P = 0.046	P < 0.05
	CSDS vs. Acu				P = 0.018	P < 0.05
	CSDS vs. Non-Acu				P = 0.981	n.s.
	WB of three groups	n = 5 mice/group.	Ordinary one-way ANOVA (Dunnett's multiple comparisons test)	F (3, 16) = 0.4087	P = 0.749	n.s.
, C	CSDS vs. Control				P = 0.013	P < 0.05
	CSDS vs. Acu				P = 0.001	P < 0.01
	CSDS vs. Non-Acu				P = 0.661	n.s.
Figure S1.						
	SPT of five groups	n = 10 mice/group.	Ordinary one-way ANOVA (Dunnett's multiple comparisons test)	F (5, 54) = 14.29	P < 0.001	P < 0.001
Α	CSDS vs. Control				P < 0.001	P < 0.001
	CSDS vs. Acu				P < 0.001	P < 0.001
	CSDS vs. Acu-3				P < 0.001	P < 0.001
	CSDS vs. Acu-7				P < 0.001	P < 0.001
	CSDS vs. Acu-14				P = 0.002	P < 0.01
	TST of five groups	n = 10 mice/group.	Ordinary one-way ANOVA (Dunnett's multiple comparisons test)	F (5, 54) = 5.072	P < 0.001	P < 0.001
В	CSDS vs. Control				P < 0.001	P < 0.001
	CSDS vs. Acu				P = 0.002	P < 0.01
	CSDS vs. Acu-3				P = 0.039	P < 0.05
	CSDS vs. Acu-7				P = 0.048	P < 0.05
	CSDS vs. Acu-14				P = 0.883	n.s.
	FST of five groups	n = 10 mice/group.	Ordinary one-way ANOVA (Dunnett's multiple comparisons test)	F (5, 54) = 6.485	P < 0.001	P < 0.001
С	CSDS vs. Control				P = 0.001	P < 0.01
	CSDS vs. Acu				P < 0.001	P < 0.001
	CSDS vs. Acu-3				P = 0.027	P < 0.05
	CSDS vs. Acu-7				P = 0.049	P < 0.05
	CSDS vs. Acu-14				P = 0.620	n.s.
D	SIR of five groups	n = 10 mice/group.	Ordinary one-way ANOVA (Dunnett's multiple comparisons test)	F (5, 54) = 11.88	P < 0.001	P < 0.001
	CSDS vs. Control				P < 0.001	P < 0.001

	CSDS vs. Acu				P = 0.003	P < 0.01
	CSDS vs. Acu-3				P = 0.021	P < 0.05
	CSDS vs. Acu-7				P = 0.021	P < 0.05
	CSDS vs. Acu-14				P = 0.231	n.s.
Figure S2.	c-Fos of three groups	n = 6 mice/group.	Ordinary one-way ANOVA (Dunnett's multiple comparisons test)	F (2, 33) = 1.141	P = 0.332	n.s.
	CSDS vs. Control				P = 0.814	n.s.
С	CSDS vs. Acu				P = 0.590	n.s.
Figure S3.	c-Fos of three groups	n = 3 mice/group.	Ordinary one-way ANOVA (Dunnett's multiple comparisons test)	F (2, 15) = 1.617	P = 0.231	n.s.
	CSDS vs. Control				P = 0.591	n.s.
В	CSDS vs. Acu				P = 0.992	n.s.
Figure S4.						
A	RMP of three groups	n = 10 neurons from 3 mice/group.	One-way ANOVA (Tukey's multiple comparisons test)	F (2, 27) = 8.795	P = 0.012	P < 0.05
	Control vs. CSDS				P = 0.404	n.s.
	CSDS vs. Acu				P = 0.816	n.s.
R	Rm of three groups	n = 10 neurons from 3 mice/group.	One-way ANOVA (Tukey's multiple comparisons test)	F (2, 27) = 3.757	P = 0.036	P < 0.05
	Control vs. CSDS				P = 0.859	n.s.
	CSDS vs. Acu				P = 0.912	n.s.
С	Cm of three groups	n = 10 neurons from 3 mice/group.	One-way ANOVA (Tukey's multiple comparisons test)	F (2, 27) = 0.4162	P = 0.664	n.s.
	Control vs. CSDS				P = 0.878	n.s.
	CSDS vs. Acu				P = 0.986	n.s.
D	Threshold of three groups	n = 10 neurons from 3 mice/group.	One-way ANOVA (Tukey's multiple comparisons test)	F (2, 27) = 1.201	P = 0.317	n.s.
	Control vs. CSDS				P = 0.335	n.s.
	CSDS vs. Acu	1			P = 0.878	n.s.
E	Rheobase of three groups	n = 10 neurons from 3 mice/group.	One-way ANOVA (Tukey's multiple comparisons test)	F (2, 27) = 4.988	P = 0.014	P < 0.05
	Control vs. CSDS				P < 0.001	P < 0.001

	CSDS vs. Acu				P < 0.001	P < 0.001
Figure S6.						
		n = 10 neurons	Kolmogorov-			
	sIPSC Amplitude of three groups	from 3	Smirnov test			
В		mice/group.				
	Control vs. CSDS				P = 0.003	P < 0.01
	CSDS vs. Acu				P = 0.055	n.s.
		n = 10 neurons	Kolmogorov-			
	sIPSC Frequency of three groups	from 3	Smirnov test			
С		mice/group.				
	Control vs. CSDS				P = 0.759	n.s.
	CSDS vs. Acu				P = 0.164	n.s.
Figure S7.						
			Ordinary one-way			
		<i>.</i>	ANOVA (Dunnett's	F (2.16) 4.000	D 0.025	D : 0.05
	WB of three groups	n = 5 mice/group.	multiple	F(3, 16) = 4.086	P = 0.025	P < 0.05
			comparisons test)			
	CSDS vs. Control				P = 0.021	P < 0.05
	CSDS vs. Acu				P = 0.041	P < 0.05
	CSDS vs. Non-Acu				P = 0.630	n.s.