

Table 1. Effects of CBD [5 mg/kg; after 24 hr (1X) or two weeks after the last day of repeated (three daily, 3X) injections] or vehicle treatment on the expression of CB₁R mRNA and GluR1 protein level in subregions of the dorsal striatum (caudate-putamen) of animals following the cue-induced reinstatement session.

	Group	Medial CPu	Mid-lateral CPu	Dorsolateral CPu
CB ₁ R mRNA	SalineSA/Vehicle	84.10 ± 5.33	157.59 ± 25.04	310.32 ± 54.90
	HeroinSA/Vehicle	144.66 ± 12.32*	232.87 ± 27.99	364.58 ± 33.47
	HeroinSA/CBD(1X)	126.44 ± 14.95	224.27 ± 33.31	370.18 ± 53.57
	HeroinSA/CBD(3X)	103.88 ± 3.9[#]	210.54 ± 27.14	353.69 ± 39.82
GluR1 protein	SalineSA/Vehicle	401.93 ± 36.91	390.86 ± 49.11	416.37 ± 61.87
	HeroinSA/Vehicle	415.18 ± 52.34	430.08 ± 52.08	425.19 ± 57.83
	HeroinSA/CBD(1X)	446.72 ± 49.42	460.92 ± 42.21	465.17 ± 47.34
	HeroinSA/CBD(3X)	343.97 ± 35.38	341.44 ± 32.93	337.51 ± 36.38

The expression of CB₁R mRNA (dpm/mg) and GluR1 protein (average integrated intensity) are shown as mean ± s.e.m. *n*=4-8/group. **P*<0.05 vs saline-vehicle group. [#]*P*<0.05 vs heroin-vehicle group. CPu, caudate-putamen; SA, self-administration.

Table 2. Effects of CBD treatment (5 mg/kg) on the expression of CB₁R mRNA level in subregions of the nucleus accumbens (NAc) and dorsal striatum (caudate-putamen) after 24 hr (1x) or two weeks after the last day of repeated (three daily, 3x) injections.

	Vehicle (1x)	CBD (1x 5 mg/kg)	Vehicle (3x)	CBD(3x 5 mg/kg)
NAc core	85.21 ± 7.74	63.34 ± 5.96*	89.92 ± 4.67	90.93 ± 7.54
NAc medial shell	86.03 ± 5.27	67.12 ± 8.39*	94.44 ± 3.59	85.12 ± 6.77
NAc lateral shell	91.00 ± 13.12	57.69 ± 15.62*	102.97 ± 7.27	102.19 ± 8.40
Medial CPu	143.01 ± 13.74	123.84 ± 4.89	131.85 ± 9.68	133.38 ± 8.09
Mid-lateral CPu	260.11 ± 15.03	283.26 ± 14.98	278.14 ± 15.79	289.33 ± 15.93
Dorsolateral CPu	660.19 ± 20.56	678.02 ± 25.84	636.67 ± 33.72	692.48 ± 15.85

**P*<0.05 vs vehicle group.