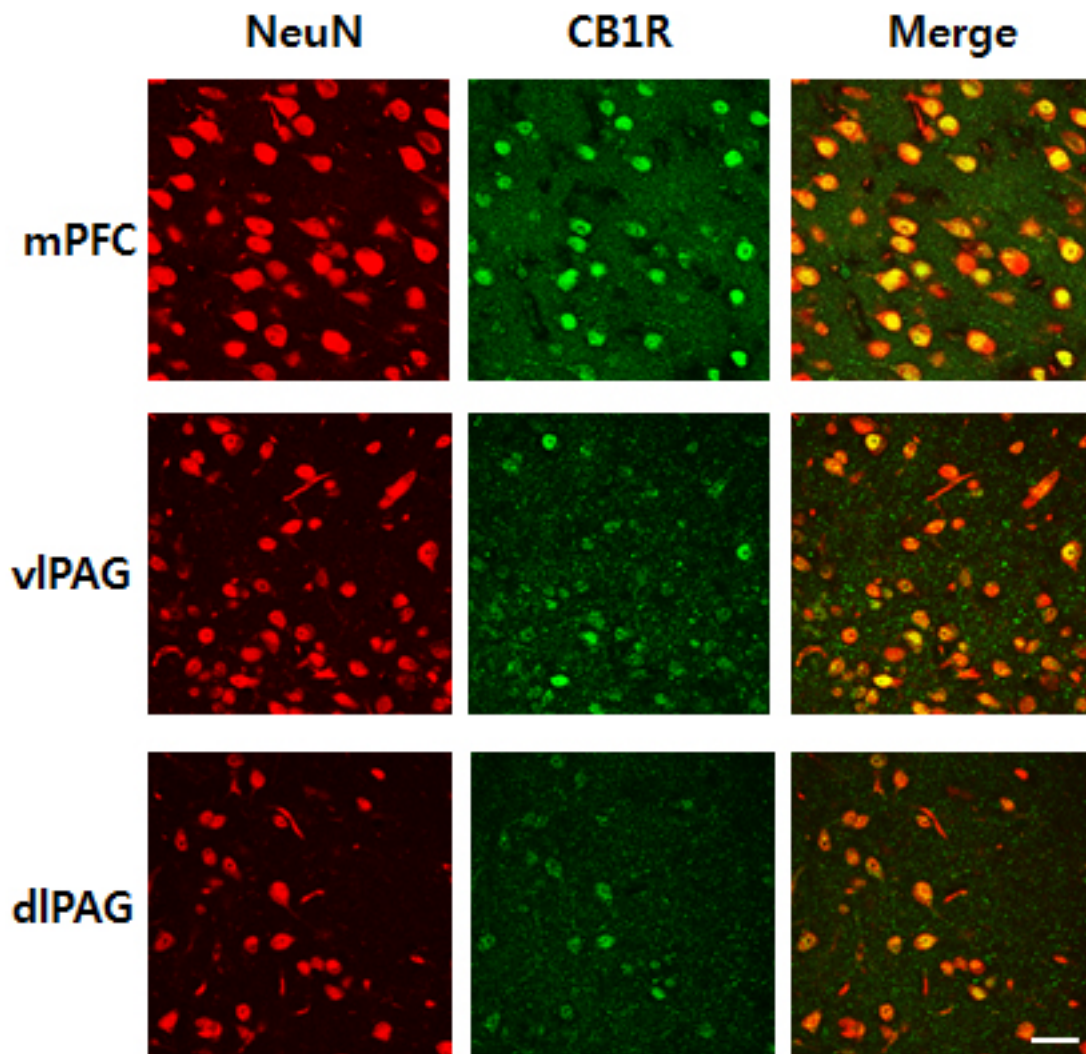


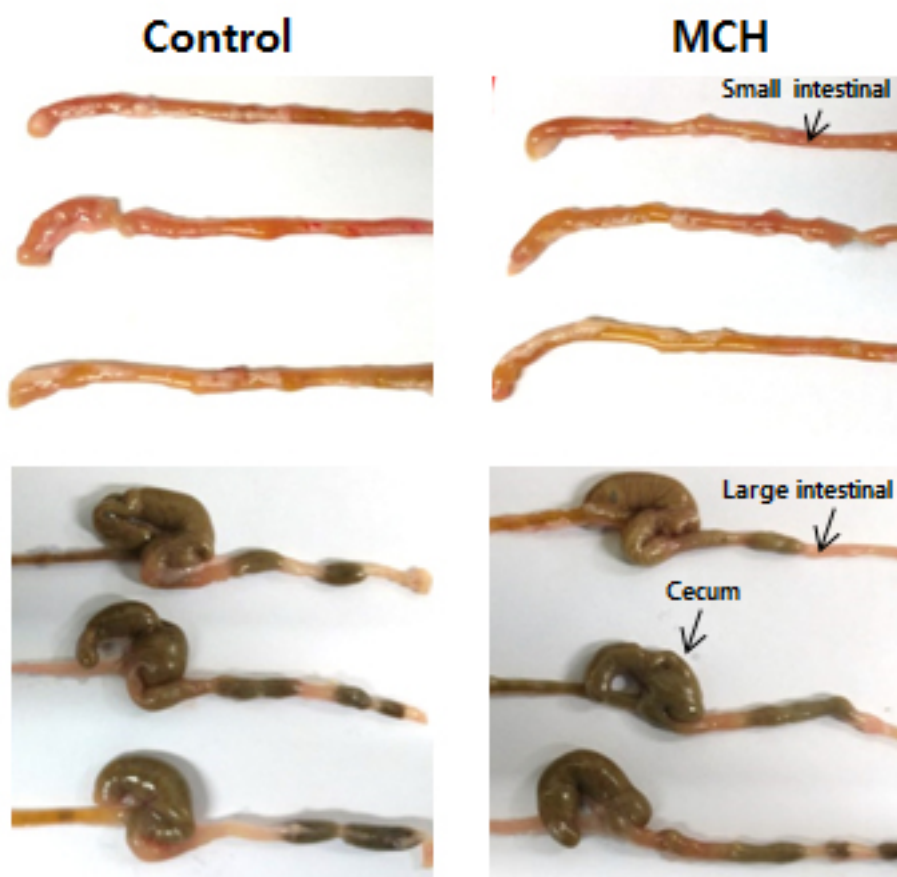
**Novel analgesic effects of melanin-concentrating hormone on persistent
neuropathic and inflammatory pain in mice**

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Supplementary Information

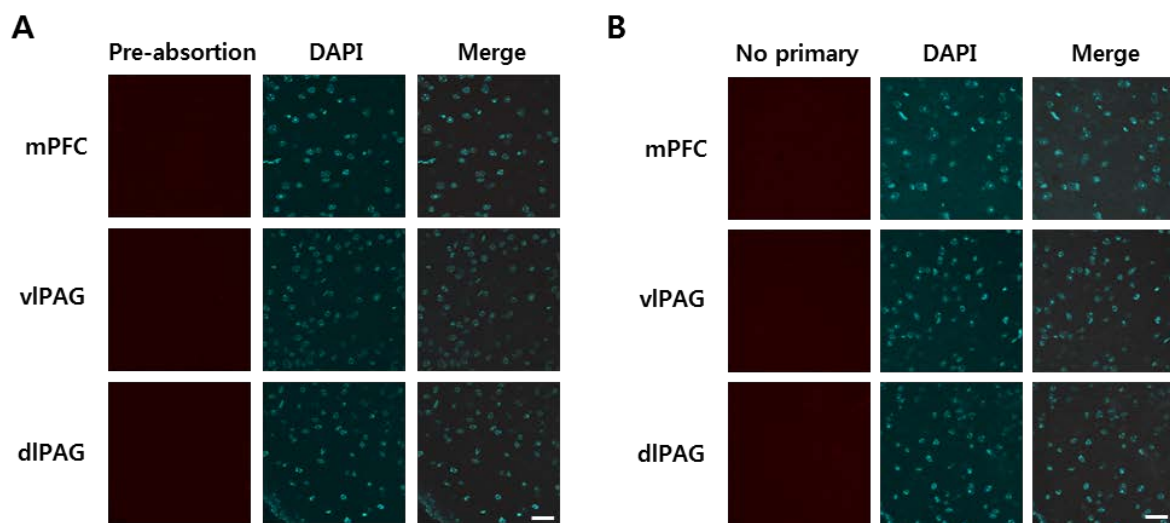


Supplementary Figure 1. The expression of CB1R in neurons in the mPFC, vl- and dlPAG. Histological examination of tissue sections from the mPFC, vl- and dlPAG of mice using immunofluorescence staining showing the expression of CB1R (green), NeuN (red) and co-expression of CB1R and NeuN (orange). Scale bar: 30 μ m.



Supplementary Figure 2. The intestinal status after i.n administration MCH in the mice.

Macroscopic examination of intestinal tissue from the mice after administration of MCH (10 $\mu\text{g}/30 \mu\text{l}$) for 5 consecutive days. There were no signs of inflammation after MCH treatments.



Supplementary Figure 3. Control Images to show the specificity of the CB1R immunohistochemistry in mPFC, vl- and dlPAG. (A) shows that the immunoreactivity of CB1R totally disappeared when the tissues were processed for CB1R antibody preabsorbed with CB1R antigen. (B) shows that the immunoreactivity of CB1R was not found when the tissues were incubated with the antibody diluent alone without primary CB1R antibody. CB1R (red) and DAPI (blue). Scale bar: 30 μ m.