

**The Effects of Nalbuphine
on the Spontaneous locomotor activity and Primary
Humoral Immune response in mice.**

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The effects of nalbuphine.HCl on the spontaneous locomotor activity and primary humoral immune response were investigated in ICR mice. Nalbuphine was intraperitoneally administered with the dose of 130, 260, 360 mg/kg in mice.

The locomotor activity such as distance traveled was observed for 90min at 10min intervals. Nalbuphine showed the biphasic dose-response relationship on the spontaneous locomotor activity. IgM plaque forming cells(PFC) in splenocytes and IgM level in antiserum were significantly decreased depending on the dose of nalbuphine when nalbuphine was administered after the immunization, but slightly increased only at the low dose in the case of nabuphine administration after the immunization(SRBC).