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Title: Pleiotrophin modulates morphine withdrawal but has no effects on morphine-conditioned place preference

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Highlights:

- We studied the effects of morphine in PTN genetically deficient (PTN^{-/-}) mice.
- PTN^{-/-} didn't show significant differences with WT in morphine rewarding effects.
- Naloxone-precipitated morphine withdrawal was more severe in PTN^{-/-} mice.
- PTN is a novel genetic factor with a role in morphine withdrawal.

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