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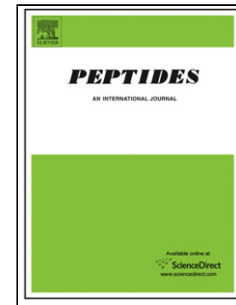
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Apelin-13 reverses memory impairment and depression-like behavior in chronic social defeat stressed rats

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Highlights

- Apelin-13 reversed CSDS-induced memory impairment in the YMT and NORT
- Apelin-13 reversed CSDS-induced depression-like behavior in the SIT, FST and TST
- apelin-13 did not influence locomotor activity in the OFT

Abstract

The apelin/APJ signaling is composed of the short peptide apelin usually including apelin-13, apelin-17 and apelin-36, and its receptor APJ. This signaling is abundantly expressed in limbic structures such as the hippocampus, suggesting a potential role in stress response and learning and memory. We recently reported that apelin-13 reverses acute stress-induced memory impairment and depression-like behavior in rats. Here, we further investigate whether apelin-13 reverses memory impairment and depression-like behavior in chronic stressed rats. Rats were subjected to chronic social defeat stress (CSDS), and

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