

# **The Marine Derived Angiogenesis Inhibitor (PYC001) in a Rat Model of Neuropathic Pain**

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## **Abstract**

Neuropathic pain is pain caused by damage or disease affecting the somatosensory nervous system. Many known painkillers are not always effective in the therapy of neuropathic pain manifested by hyperalgesia and tactile allodynia. In this study, we used the rat chronic constriction injury (CCI) model which can induce the neuropathic pain. The pain level was measured by thermal hyperalgesia. And we treated the neuropathic by intrathecal (i.t.) injection. The marine derived compound PYC001 is a kind of HDAC inhibitors. The result shows that this compound might has effect to treat neuropathic pain, and it has potential to develop as a new medicine to treat neuropathic pain.

**Keywords** : chronic constriction injury (CCI); neuropathic pain; Histone deacetylase (HDAC)