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Daily oral intake of β -cryptoxanthin ameliorates neuropathic pain.

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Abstract

β -cryptoxanthin, a xanthophyll carotenoid, exerts preventive effects on various lifestyle-related diseases. Here, we found that daily oral administration of β -cryptoxanthin significantly ameliorated the development of tactile allodynia following spinal nerve injury but was ineffective in mechanical allodynia in an inflammatory pain model in mice. Our results suggest that β -cryptoxanthin supplementation would be beneficial for the prophylaxis of neuropathic pain.

KEYWORDS: allodynia; neuropathic pain; β -cryptoxanthin

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