

综述

## 5-羟色胺2A受体与疼痛

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摘要

5-羟色胺(5-HT)是一种内源性的活性物质,5-HT具有多种受体亚型。在中枢可以通过2A受体引起抑制性神经递质γ-丁氨酸(GABA)等的释放,从而发挥镇痛作用;在外周参与伤害性感受器的活化,促进伤害性信息的传递。组织损伤以及炎症状态下,血小板和肥大细胞即释放5-HT。5-HT<sub>2A</sub>受体可介导5-HT引起的疼痛,该受体可以作为开发外周镇痛药物的重要靶点。

关键词 [5-羟色胺受体](#) [外周](#) [中枢](#) [致痛](#) [镇痛](#)

分类号

## 5-hydroxytryptamine 2A receptor and pain

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Abstract  
5-hydroxytryptamine (5-HT) is an endogenous bioactive substance and its receptor has many subtypes including 5-HT<sub>2A</sub>. In the central, 5-HT can induce the release of inhibitory neurotransmitter γ-aminobutyric acid (GABA) etc. through 5-HT<sub>2A</sub> receptor resulting in analgesia. In the peripheral, 5-HT can active the nociceptor and advance the traumatic information transmission. 5-HT can be released from the platelets and mast cells under the injured and inflammatory conditions. The 5-HT<sub>2A</sub> receptor subtype is involved in the 5-HT-mediated nociceptive mechanism, which can be researched as a target in exploring peripheral antinociceptive medication.

Key words [5-HT<sub>2A</sub> receptor](#) [peripheral](#) [central](#) [nociception](#) [antinociception](#)

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