

论文

蝙蝠葛碱和粉防己碱对<sup>[3H]</sup>WEB 2086与体外牛脑前动脉平滑肌细胞结合的影响(英文)

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摘要:

用标记的血小板活化因子拮抗剂<sup>[3H]</sup>WEB 2086,在培养的牛脑前动脉平滑肌细胞上鉴定了血小板活化因子受体。结果表明在25℃时该细胞上存在两种与配基具有不同亲和力的受体结合位点,其中 $K_{d-1}=22.8\pm 5.0\text{ nmol}\cdot\text{L}^{-1}$ , $K_{d-2}=186\pm 20.5\text{ nmol}\cdot\text{L}^{-1}$ ;  $B_{\text{max-1}}=2.1\pm 0.3\text{ pmol}/10^4\text{ 细胞}$ , $B_{\text{max-2}}=12.1\pm 1.5\text{ pmol}/10^6\text{ 细胞}$ 。蝙蝠葛碱和粉防己碱均能抑制<sup>[3H]</sup>WEB2086与上述细胞的结合。

关键词: <sup>[3H]</sup>WEB 2086 血管平滑肌 受体 血小板活化因子 蝙蝠葛碱 粉防己碱

EFFECTS OF DAURICINE AND TETRANDRINE ON <sup>[3H]</sup> WEB 2086 SPECIFIC BINDING TO BOVINE ANTERIOR CEREBRAL ARTERIAL SMOOTH MUSCLE CELLS IN VITRO

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Abstract:

By using <sup>[3H]</sup> WEB 2086, a PAF antagonist, specific binding sites of PAF on bovine anterior cerebral arterial smooth muscle cells was identified. Two populations of binding sites with different dissociation constants on the cells were found. The  $K_{d-1}=22.8\pm 5.0\text{ nmol}\cdot\text{L}^{-1}$ ,  $K_{d-2}=186\pm 20.5\text{ nmol}\cdot\text{L}^{-1}$  at 25 C. The total number of binding sites were  $B_{\text{max-1}}=2.1\pm 0.3\text{ pmol}/10^6\text{ cells}$  and  $B_{\text{max-2}}=12.1\pm 1.5\text{ pmol}/10^6\text{ cells}$ . Dauricine and tetrandrine, two active compounds with similar chemical structure extracted from traditional Chinese herbs, were found to inhibit <sup>[3H]</sup> WEB 2086 specific binding significantly in culture cells.

Keywords: Vascular smooth muscle Receptor PAF Dauricine Tetrandrine <sup>[3H]</sup> WEB 2086

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