

论文

1-(2,6-二甲基苯氧基)-2-(3,4-二甲氧基苯乙胺基)丙烷盐酸盐对自发性高血压大鼠血管平滑肌细胞增殖及对PDGF-B,bFGF,c-sis,c-myc的影响

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摘要:

用氘 胸腺嘧啶核苷(³H-TdR)掺入法,电镜,免疫组化,原位杂交方法,在自发性高血压大鼠(SHR)观察了1-(2,6-二甲基苯氧基)-2-(3,4-二甲氧基苯乙胺基)丙烷盐酸盐(DDPH)对血管平滑肌细胞(VSMC)增殖的作用及对生长因子PDGF-B,bFGF及其相关癌基因c-sis与c-myc表达的影响。结果发现:DDPH在降低SHR血压同时,能减少肾动脉VSMC的线粒体,粗面内质网和³H-TdR掺入量,并能逆转VSMC增殖时PDGF-B,bFGF抗原及c-sis与c-mycmRNA的表达增强。提示:DDPH能抑制SHR的VSMC增殖,与生长因子及癌基因调控的分子生物学机制有关。

关键词: 1-(2,6-二甲基苯氧基)-2-(3,4-二甲氧基苯乙胺基)丙烷盐酸盐(DDPH) 自发性高血压大鼠 血管平滑肌细胞 生长因子 癌基因

EFFECTS OF 1-(2,6-DIMETHYLPHENOXY)-2-(3,4-DIMETHOXYPHENYLETHYLAMINO)PROPANE HYDROCHLORIDE ON PROLIFERATION OF VASCULAR SMOOTH MUSCLE CELLS AND PDGF-B, bFGF, c-sis, c-myc IN SPONTANEOUSLY HYPERTENSIVE RAT

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Abstract:

In order to determine the effects of 1-(2,6-dimethylphenoxy)-2-(3,4-dimethoxyphenylethylamino) propane hydrochloride(DDPH) on proliferation of vascular smooth muscle cells (VSMC), growth factor PDGF-B, bFGF and expression of oncogene c-sis and c-myc in spontaneously hypertensive rat(SHR), ³H-thymidine(³H-TdR) incorporation, electronic microscopy, immunohistochemistry and *in situ* hybridization assays were used. The results showed that after DDPH administration (50 mg ig q.d.×8 wk to SHR), morphological change of VSMC was antagonized, blood presure and ³H-TdR incorporation were significantly reduced. Furthermore, DDPH was shown to reverse the enhanced antigen PDGF-B and bFGF and reverse the reduced expression of oncogene c-sis and c-myc in SHR. These results suggest that DDPH may inhibit VSMC proliferation in SHR, which may be relevant to the molecular biological mechanism of growth factors and oncogene control.

Keywords: Spontaneously hypertensive rat Vascular smooth muscle cells Growth factor Oncogene 1-(2,6-Dimethylphenoxy)-2-(3,4-dimethoxyphenylethylamino) propane hydrochloride(DDPH)

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