药学学报 1990, 25(5) 321-325 DOI: ISSN: CN:

本期目录 | 下期目录 | 过刊浏览 | 高级检索

[打印本页] [关闭]

鹿茸有效成分对小鼠肝脏RNA和蛋白质合成的影响

王本祥:陈晓光:张伟

吉林省中医中药研究院中药所,长春130021

摘要:

多次给小鼠po鹿茸多胺30mg/kg,对[³H]leucine和[³H]uridine掺入肝组织蛋白和RNA有明显的促进作用,而庸茸非 多胺则无此作用; 当腐胺剂量为21mg/kg时,不仅促进[3 H]leucine和[3 H]uridiae掺入肝组织蛋白和RNA,也促进[3 H] \blacktriangleright 把本文推荐给朋友 uridine掺入肝细胞核的RNA中,并增强RNA聚合酶的活性;精脒在剂量为8mg/kg时,仅对[3H]leucine掺入肝组织蛋 白有促进;而精胺在1mg/kg时,没有观察到上述各种现象。此结果提示,鹿茸多胺类物质是鹿茸中刺激小鼠肝组织蛋 白和RNA合成的主要活性物质,这种刺激小鼠肝组织蛋白和RNA合成效应是由于鹿茸多胺能够显著地增强RNA聚合 酶的活性。

关键词: 鹿茸 多胺 蛋白质 核糖核酸 核糖核酸聚合酶

INFLUENCE OF THE ACTIVE COMPOUNDS ISOLATED FROM PILOSE ANTLER ON SYNTHESES OF PROTEIN AND RNA IN MOUSE LIVER

BX Wang; XG Chen and W Zhang

Abstract:

The polyamines of pilose antler (PASPA) consist of putrescine (PU, 70.9%), spermidine (SPD, 26.3%) and spermine (SP, 2.8%). The incorporations of $[^3H]$ leucine into protein and $[^3H]$ uridine into RNA in mouse liver tissue were increased when PASPA was given orally to mice at the dose of 30 mg/kg for 4 successive days. The incorporations of $\lceil^3H\rceil$ leucine into liver protein and $\lceil^3H\rceil$ uridine into the cytosolic and nuclear RNA were also increased by treatment with PU (21 mg/kg). In addition, the RNA polymerase activity in the solubilized liver nuclear fraction of PU (21 mg/kg)-treated mice was increased. SPD only promoted the synthesis of protein in mouse liver tissue at the dose of 8 mg/kg. However, SP showed no effect on the synthesis of protein and RNA polymerase activity under the used dose (1 mg/kg). The results suggest that PASPA is the main active substance responsible for the promotion of the synthesis of protein and RNA in mouse liver.

Keywords: Pilose antler Protein RNA RNA polymerase Polyamines

收稿日期 1989-03-20 修回日期 网络版发布日期

DOI:

基金项目:

通讯作者:

作者简介:

参考文献:

本刊中的类似文章

- 王本祥; 刘爱晶; 程秀娟; 王庆贵; 魏广仁; 崔景朝. 鹿茸多糖抗溃疡作用[J]. 药学学报, 1985,20(5): 321-325
- 2. 翁梁; 周秋丽; 王丽娟; 刘永强; 王岩; 王颖; 王本祥. 鹿茸多肽促进表皮和成纤维细胞增殖及皮肤创伤愈合[J]. 药学 学报, 2001,36(11): 817-820
- 3. 翁梁; 周秋丽; 池岛桥; 王本祥. 马鹿茸促进表皮细胞和软骨细胞分裂的新多肽[J]. 药学学报, 2001, 36(12): 913-916
- 4. 王本祥; 陈晓光; 徐惠波; 张伟; 张洁. 鹿茸多胺对小鼠肝细胞RNA聚合酶活性的影响[J]. 药学学报, 1990,25(9): 652-657
- 5. 张志强; 张沅; 王本祥; 周海欧; 王岩; 张宏. 鹿茸多肽的纯化和鉴定(英文)[J]. 药学学报, 1992,27(5): 321-324

扩展功能

本文信息

- ▶ Supporting info
- PDF(303KB)
- ▶ [HTML全文]
- ▶参考文献

服务与反馈

- ▶加入我的书架
- ▶加入引用管理器
- ▶引用本文
- ▶ Email Alert
- ▶ 文章反馈
- ▶浏览反馈信息

本文关键词相关文章

- ▶鹿茸
- ▶ 多胺
- ▶蛋白质
- ▶核糖核酸
- ▶ 核糖核酸聚合酶

本文作者相关文章

- ▶王本祥
- ▶陈晓光
- ▶ 张伟

PubMed

- Article by
- Article by
- Article by

文章评论 (请注意:本站实行文责自负,请不要发表与学术无关的内容!评论内容不代表本站观点.)

反馈人	邮箱地址	
反馈标题	验证码	1422

Copyright 2008 by 药学学报