

论著

泥鳅多糖对实验性糖尿病小鼠血糖血脂的影响

钦传光, 黄开勋, 徐辉碧*

(华中科技大学药物研究所, 湖北 武汉 430074)

收稿日期 2001-6-18 修回日期 网络版发布日期 2009-1-13 接受日期 2001-9-4

摘要 目的 为了解泥鳅多糖 (MAP) 对链佐星或四氧嘧啶致糖尿病小鼠血糖、血脂水平的影响。方法 采用分别 ip 链佐星和四氧嘧啶, 建立两种糖尿病小鼠模型, 再分别 ig MAP 20, 60 mg · kg⁻¹ 及阳性对照药苯乙双胍 35 mg · kg⁻¹ ig 治疗, 正常对照组则 ig 等体积生理盐水。连续给药 14 d 后, 分别测定各组小鼠血糖、血脂。结果 MAP 20, 60 mg · kg⁻¹ 能明显降低链佐星或四氧嘧啶所致糖尿病小鼠的血糖升高; 同时, MAP 还能明显降低链佐星或四氧嘧啶所致糖尿病小鼠血清中的总胆固醇、甘油三酯和低密度脂蛋白胆固醇升高。结论 MAP 具有降血糖和调节血脂的作用。

关键词 [多糖](#); [泥鳅](#); [血糖](#); [血脂](#); [糖尿病](#)

分类号 [R977.6](#)

Effects of *Misgurnus anguillicaudatus* polysaccharides on glycemia and lipidemia in experimental diabetic mice

QIN Chuan-Guang, HUANG Kai-Xun, XU Hui-Bi*

(Pharmaceutical Institute, Huazhong University of Science and Technology, Wuhan 430074, China)

Abstract

AIM To investigate the effects of *Misgurnus anguillicaudatus* polysaccharides (MAP) on hyperglycemia and hyperlipidemia in diabetic mice induced by streptozocin or alloxan. **METHODS**] The living diabetic mice were divided into four groups. Among them, two groups were treated with MAP 20, 60 mg · kg⁻¹, respectively by ig administration, and one group was given phenformin 35 mg · kg⁻¹ by ig administration as the positive control, and another group was given normal saline as the diabetic model control. After 14 d of treatment, the blood glucose and the serum lipids content of each group were detected. **RESULTS**] Compared with the diabetic model control group, MAP 20 and 60 mg · kg⁻¹ could significantly decrease the blood glucose in diabetic mice ($P < 0.01$). At the same time, the results also shown that MAP could remarkably decrease the level of serum total cholesterol, triglyceride, low-density-lipoprotein cholesterol in diabetic mice. **CONCLUSION** MAP has modulation effects on the blood glucose and the blood lipids.

Key words [polysaccharides](#) [Misgurnus anguillicaudatus](#) [blood glucose](#) [blood lipids](#) [diabetes](#)

DOI:

通讯作者 徐辉碧 hbXu@mail.hust.edu.cn

扩展功能

本文信息

- ▶ [Supporting info](#)
- ▶ [PDF\(247KB\)](#)
- ▶ [\[HTML全文\]\(0KB\)](#)
- ▶ [参考文献](#)

服务与反馈

- ▶ [把本文推荐给朋友](#)
- ▶ [加入我的书架](#)
- ▶ [加入引用管理器](#)
- ▶ [复制索引](#)
- ▶ [Email Alert](#)
- ▶ [文章反馈](#)
- ▶ [浏览反馈信息](#)

相关信息

- ▶ [本刊中 包含“多糖; 泥鳅; 血糖; 血脂; 糖尿病”的 相关文章](#)
- ▶ [本文作者相关文章](#)

- [钦传光](#)
- [黄开勋](#)
- [徐辉碧](#)