



寄生性蠕虫组织蛋白酶F研究进展

曲自刚, 付宝权*

中国农业科学院兰州兽医研究所, 家畜疫病病原生物学国家重点实验室, 农业部兽医公共卫生重点开放实验室, 甘肃省动物寄生虫病重点实验室, 兰州730046

Research Progress on Cathepsin F of Parasitic Helminths

QU Zi-gang, FU Bao-quan*

State Key Laboratory of Veterinary Etiological Biology; Key Laboratory of Veterinary Public Health of the Ministry of Agriculture; Key Laboratory of Veterinary Parasitology of Gansu Province; Lanzhou Veterinary Research Institute, Chinese Academy of Agricultural Sciences, Lanzhou 730046, China

摘要

参考文献

相关文章

Download: [PDF \(4528KB\)](#) [HTML 1KB](#) Export: [BibTeX](#) or [EndNote \(RIS\)](#) [Supporting Info](#)

摘要 组织蛋白酶F (cathepsin F) 是半胱氨酸蛋白酶家族木瓜蛋白酶亚家族的重要成员。寄生性蠕虫组织蛋白酶F可水解半胱氨酸蛋白酶特异性底物, 降解血红蛋白等宿主蛋白作为营养物质, 参与虫体入侵, 且具有免疫反应性, 可作为寄生虫病免疫诊断、疫苗研制和抗寄生虫药物筛选的潜在靶点, 对寄生虫病防治具有重要意义。本文综述了组织蛋白酶F的结构特征、作用机制及寄生性蠕虫组织蛋白酶F的研究进展。

关键词: 寄生性蠕虫 组织蛋白酶F 酶活性 免疫反应性

Abstract: Cathepsin F is an important member of papain-like subfamily in cysteine protease family. Cathepsin F of helminth parasites can hydrolyze the specific substrate, degrade host protein such as hemoglobin for nutrition, and be involved in invasion into host tissue. Therefore, cathepsin F serves as a potential target for parasitic disease immunodiagnosis, vaccine design and anti-parasite drug screening. This article reviews the structural characteristics and mechanisms of cathepsin F, and research advances on cathepsin F of parasitic helminths.

Keywords: Parasitic helminth Cathepsin F Enzymatic activity Immunoreactivity

Service

- ▶ [把本文推荐给朋友](#)
- ▶ [加入我的书架](#)
- ▶ [加入引用管理器](#)
- ▶ [Email Alert](#)
- ▶ [RSS](#)

[作者相关文章](#)