氧化苦参碱在鸭原代肝细胞中抗鸭乙肝病毒(DHBV)作用的研究

许斌",周双成",黄玉仙",瞿涤"

(1. 复旦大学 病原微生物所和生物医学研究所 医学分子病毒学教育部/卫生部重点实验室。上海 200032; 2. 复旦大学 附属华山医院传染科 上海 200040)

摘要 通过建立鸭原代肝细胞-DHBV 感染模型研究氧化苦参碱抗 DHBV 的作用。分别在 DHBV 感染前、感染同时 以及感染后给药 利用打点杂交、Southern 印迹核酸杂交和荧光定量 PCR 方法分别检测培养细胞上清及细胞内病 毒核酸 观察氧化苦参碱在病毒感染的各个环节所起的抗病毒作用。实验结果显示:1mg/ml,氧化苦参碱处理相 胞后 鳥原代肝细胞培养上清及细胞内的 DHBV 核酸明显低于病毒感染对照组 病毒抑制率达 91.6% 在病毒感 染同时加药对病毒的排制率可达 98.5%;感染后持续用药能使不同培养天数的鸭肝细胞内的 DHBV 核酸降低 60.5%-96.6% 氯化苦参碱与 DHBV 共興育后。可以使病毒感染力下降 69.6%。结果说明氯化苦参碱可以在 DERV 感染酶原代肝细胞的多个环节 包括病毒吸制 进入细胞及细胞内复制等方面发挥抗病毒作用。

关键词 赖乙肝病毒 氯化苦参碱 赖原代肝细胞 抗病毒作用

中間分类号 38373.2 文: 南北极、江京石等 : 八 文章编号 1000-8721(2006)05-0369-06

氧化苦参碱 Oxymatrine OM)是从中药苦豆子 中提取的一种生物碱。与苦参碱同属四环的喹诺里 西喻(Quinolizidine)生物碱。在临床乙肝治疗中发 现此类药物具有一定的抗病毒疗效"。"其安全浓 度范围较大 。无明显的临床不良反应37:并且与其 它抗病毒药物联用可提高疗效。」是我国自主研发 的一种抗乙肝病毒药物。由于乙肝病毒具有严格的 宿主与组织嗜性,体外很难建立支持其自然感染的 细胞模型,故以往多采用稳定转染 HBV 基因组 DNA 的 HepG2 2.2.15 细胞研究氧化苦参碱的抗病 毒复制作用 5 l。 嗜肝 DNA 病毒的复制周期起始于 病毒对易感细胞的吸附 进而通过内吞作用进入细 脚 之后是脱壳、基因组复制、装配及释放子病毒 抗 病毒药物可能通过作用于病毒复制的一个或多个环 节发挥作用。为了评价氧化苦参碱在病毒感染的不 同环节的抗病毒效果 此研究利用鸭原代肝细胞 -DHBV 懸染模型 模拟病毒的自然懸染过程 在病毒 感染前、感染同时及感染后等不同时间给药 以研究 在 DHRV 感染的进入, 吸附以及细胞内复制等环节 氧化苦参碱的抗病毒作用。

材料与方法

- 1 动物和毒株 樱桃谷梨 Anas planythynchos 由上海市畜牧 兽医研究所种鸭基地提供。颈静脉采血分离血清 利用 內京 方法检测血清样本中的 Diesy 病毒 DNA 选择 DHEV 病毒期 性雏鸭作为肝细胞供体 13HBV OP-1 由 DHBV 先天縣染的鸭 分离血清而得。含 DHBV 病毒 3×10°/ml。由本实验室保存。
- 2 药物 氧化苦参碱 Oxymatrine , OM).分 子式 Civ. Hu. N.O. H.O 分子量 282.38 .自色结晶 .枝度大于 97% .由 江苏正大天晴药业般份有限公司惠赠。用不含血清的细胞 培养液配制为 50mg/ml, 0.22mm 滤膜过滤除菌。
- 3 试剂 细胞培养基 Leibovitz's L-15 Medium, collagenase, Liver Perfusion Medium, Hepatocyte Wash Medium 购于 GIB-CO 公司 Jinsulin, Hydrocortisone 21-bemisuccinate sodium salt 购于 Signes 公司 :EX Teq HS, 5 × real-time PCR buffer, dNTPs Mixture 等购于 TaKaRa 公司 知离子尼龙摄为 Roche 公司产品:医用 X 光胶片购于柯达公司:蛋白酶 K 购于 E. MERCK 公司 其它试剂为国产分析纯试剂。
- 4 鸭原代肝细胞的分离、培养与感染 3 日龄雏鸭经颈静 脉采血 .PCR 检测 DHEV 先天感染(引物 S:CTCACTT-TGTCKATCTCATTG .AS: ATCGGATAGTCGCGTTGG). DHBV感染阴性的雏鸭用作肝细胞分离培养。雏鸭经戊巴 比妥钠麻醉后。打开腹腔、分离门静脉,自门静脉灌流 Liver Perfusion Medium 100ml 后 用含 Imp/ml. 胶原酶 IV 的无粉 红 Hank's 液继续灌溉 50ml)流速 5ml/min。随后取出肝 脏 揭去肝包膜后研磨 用 Heratocyte Wash Medium 冲洗肝 细胞 潮心 廃上清 用培养液重悬细胞 以 6×10°/~1. 密度 将细聚镇于 60cm 细聚培养皿 加入培养液 5mf L-15 培养 基 含 5% 胎牛血清 .1% 双抗 .1% L.谷氨酰胺 .tes/ml. in-

收稿日期 2006-03-20: 條回日期 2006-08-16

基金项目 编家自然科学基金(30070693)

作者简介 纤维 1975~)男 山东省人 博士研究生 从事抗病 毒治疗与免疫研究。E-mail healain@ men.com.

適讯作者:羅達, Tel. 86-21-54237524, E-mail: dou@shmu. eacher cores

Oxymatrine Treatment Of Viral Hepatitis In Basic And Clinicalchinese Edition

Rachel Sandford

Oxymatrine Treatment Of Viral Hepatitis In Basic And Clinicalchinese Edition:

Oxymatrine Treatment Of Viral Hepatitis In Basic And Clinicalchinese Edition Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has be apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "Oxymatrine Treatment Of Viral Hepatitis In Basic And Clinicalchinese Edition," published by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound affect our existence. Throughout this critique, we shall delve into the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

 $\frac{https://correiodobrasil.blogoosfero.cc/book/uploaded-files/index.jsp/parenting\%20plan\%20evaluations\%20applied\%20researc\\ \frac{h\%20for\%20the\%20family\%20court.pdf}{}$

Table of Contents Oxymatrine Treatment Of Viral Hepatitis In Basic And Clinicalchinese Edition

- 1. Understanding the eBook Oxymatrine Treatment Of Viral Hepatitis In Basic And Clinicalchinese Edition
 - The Rise of Digital Reading Oxymatrine Treatment Of Viral Hepatitis In Basic And Clinicalchinese Edition
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Oxymatrine Treatment Of Viral Hepatitis In Basic And Clinicalchinese Edition
 - Exploring Different Genres
 - o Considering Fiction vs. Non-Fiction
 - $\circ \ \ Determining \ Your \ Reading \ Goals$
- 3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Oxymatrine Treatment Of Viral Hepatitis In Basic And Clinicalchinese Edition
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Oxymatrine Treatment Of Viral Hepatitis In Basic And Clinicalchinese Edition
 - Personalized Recommendations

- Oxymatrine Treatment Of Viral Hepatitis In Basic And Clinicalchinese Edition User Reviews and Ratings
- Oxymatrine Treatment Of Viral Hepatitis In Basic And Clinicalchinese Edition and Bestseller Lists
- 5. Accessing Oxymatrine Treatment Of Viral Hepatitis In Basic And Clinicalchinese Edition Free and Paid eBooks
 - Oxymatrine Treatment Of Viral Hepatitis In Basic And Clinicalchinese Edition Public Domain eBooks
 - Oxymatrine Treatment Of Viral Hepatitis In Basic And Clinicalchinese Edition eBook Subscription Services
 - Oxymatrine Treatment Of Viral Hepatitis In Basic And Clinicalchinese Edition Budget-Friendly Options
- 6. Navigating Oxymatrine Treatment Of Viral Hepatitis In Basic And Clinicalchinese Edition eBook Formats
 - ∘ ePub, PDF, MOBI, and More
 - o Oxymatrine Treatment Of Viral Hepatitis In Basic And Clinicalchinese Edition Compatibility with Devices
 - o Oxymatrine Treatment Of Viral Hepatitis In Basic And Clinicalchinese Edition Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Oxymatrine Treatment Of Viral Hepatitis In Basic And Clinicalchinese Edition
 - Highlighting and Note-Taking Oxymatrine Treatment Of Viral Hepatitis In Basic And Clinicalchinese Edition
 - Interactive Elements Oxymatrine Treatment Of Viral Hepatitis In Basic And Clinicalchinese Edition
- 8. Staying Engaged with Oxymatrine Treatment Of Viral Hepatitis In Basic And Clinicalchinese Edition
 - o Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Oxymatrine Treatment Of Viral Hepatitis In Basic And Clinicalchinese Edition
- 9. Balancing eBooks and Physical Books Oxymatrine Treatment Of Viral Hepatitis In Basic And Clinicalchinese Edition
 - ∘ Benefits of a Digital Library
 - Creating a Diverse Reading Collection Oxymatrine Treatment Of Viral Hepatitis In Basic And Clinicalchinese Edition
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Oxymatrine Treatment Of Viral Hepatitis In Basic And Clinicalchinese Edition
 - Setting Reading Goals Oxymatrine Treatment Of Viral Hepatitis In Basic And Clinicalchinese Edition
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Oxymatrine Treatment Of Viral Hepatitis In Basic And Clinicalchinese Edition

- Fact-Checking eBook Content of Oxymatrine Treatment Of Viral Hepatitis In Basic And Clinicalchinese Edition
- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

Oxymatrine Treatment Of Viral Hepatitis In Basic And Clinicalchinese Edition Introduction

In the digital age, access to information has become easier than ever before. The ability to download Oxymatrine Treatment Of Viral Hepatitis In Basic And Clinicalchinese Edition has revolutionized the way we consume written content. Whether you are a student looking for course material, an avid reader searching for your next favorite book, or a professional seeking research papers, the option to download Oxymatrine Treatment Of Viral Hepatitis In Basic And Clinicalchinese Edition has opened up a world of possibilities. Downloading Oxymatrine Treatment Of Viral Hepatitis In Basic And Clinicalchinese Edition provides numerous advantages over physical copies of books and documents. Firstly, it is incredibly convenient. Gone are the days of carrying around heavy textbooks or bulky folders filled with papers. With the click of a button, you can gain immediate access to valuable resources on any device. This convenience allows for efficient studying, researching, and reading on the go. Moreover, the cost-effective nature of downloading Oxymatrine Treatment Of Viral Hepatitis In Basic And Clinicalchinese Edition has democratized knowledge. Traditional books and academic journals can be expensive, making it difficult for individuals with limited financial resources to access information. By offering free PDF downloads, publishers and authors are enabling a wider audience to benefit from their work. This inclusivity promotes equal opportunities for learning and personal growth. There are numerous websites and platforms where individuals can download Oxymatrine Treatment Of Viral Hepatitis In Basic And Clinicalchinese Edition. These websites range from academic databases offering research papers and journals to online libraries with an expansive collection of books from various genres. Many authors and publishers also upload their work to specific websites, granting readers access to their content without any charge. These platforms not only provide access to existing literature but also serve as an excellent platform for undiscovered authors to share their work with the world. However, it is essential to be cautious while downloading Oxymatrine Treatment Of Viral Hepatitis In Basic And Clinicalchinese Edition. Some websites may offer pirated or illegally obtained copies of copyrighted material. Engaging in such activities not only violates copyright laws but also undermines the efforts of authors, publishers, and researchers. To

ensure ethical downloading, it is advisable to utilize reputable websites that prioritize the legal distribution of content. When downloading Oxymatrine Treatment Of Viral Hepatitis In Basic And Clinicalchinese Edition, users should also consider the potential security risks associated with online platforms. Malicious actors may exploit vulnerabilities in unprotected websites to distribute malware or steal personal information. To protect themselves, individuals should ensure their devices have reliable antivirus software installed and validate the legitimacy of the websites they are downloading from. In conclusion, the ability to download Oxymatrine Treatment Of Viral Hepatitis In Basic And Clinicalchinese Edition has transformed the way we access information. With the convenience, cost-effectiveness, and accessibility it offers, free PDF downloads have become a popular choice for students, researchers, and book lovers worldwide. However, it is crucial to engage in ethical downloading practices and prioritize personal security when utilizing online platforms. By doing so, individuals can make the most of the vast array of free PDF resources available and embark on a journey of continuous learning and intellectual growth.

FAQs About Oxymatrine Treatment Of Viral Hepatitis In Basic And Clinicalchinese Edition Books

How do I know which eBook platform is the best for me? Finding the best eBook platform depends on your reading preferences and device compatibility. Research different platforms, read user reviews, and explore their features before making a choice. Are free eBooks of good quality? Yes, many reputable platforms offer high-quality free eBooks, including classics and public domain works. However, make sure to verify the source to ensure the eBook credibility. Can I read eBooks without an eReader? Absolutely! Most eBook platforms offer webbased readers or mobile apps that allow you to read eBooks on your computer, tablet, or smartphone. How do I avoid digital eye strain while reading eBooks? To prevent digital eye strain, take regular breaks, adjust the font size and background color, and ensure proper lighting while reading eBooks. What the advantage of interactive eBooks? Interactive eBooks incorporate multimedia elements, guizzes, and activities, enhancing the reader engagement and providing a more immersive learning experience. Oxymatrine Treatment Of Viral Hepatitis In Basic And Clinicalchinese Edition is one of the best book in our library for free trial. We provide copy of Oxymatrine Treatment Of Viral Hepatitis In Basic And Clinicalchinese Edition in digital format, so the resources that you find are reliable. There are also many Ebooks of related with Oxymatrine Treatment Of Viral Hepatitis In Basic And Clinicalchinese Edition. Where to download Oxymatrine Treatment Of Viral Hepatitis In Basic And Clinicalchinese Edition online for free? Are you looking for Oxymatrine Treatment Of Viral Hepatitis In Basic And Clinicalchinese Edition PDF? This is definitely going to save you time and cash in something you should think about. If you trying to find then search around for online. Without a doubt there are numerous these available and many of them have the freedom. However without doubt you

receive whatever you purchase. An alternate way to get ideas is always to check another Oxymatrine Treatment Of Viral Hepatitis In Basic And Clinicalchinese Edition. This method for see exactly what may be included and adopt these ideas to your book. This site will almost certainly help you save time and effort, money and stress. If you are looking for free books then you really should consider finding to assist you try this. Several of Oxymatrine Treatment Of Viral Hepatitis In Basic And Clinicalchinese Edition are for sale to free while some are payable. If you arent sure if the books you would like to download works with for usage along with your computer, it is possible to download free trials. The free guides make it easy for someone to free access online library for download books to your device. You can get free download on free trial for lots of books categories. Our library is the biggest of these that have literally hundreds of thousands of different products categories represented. You will also see that there are specific sites catered to different product types or categories, brands or niches related with Oxymatrine Treatment Of Viral Hepatitis In Basic And Clinicalchinese Edition. So depending on what exactly you are searching, you will be able to choose e books to suit your own need. Need to access completely for Campbell Biology Seventh Edition book? Access Ebook without any digging. And by having access to our ebook online or by storing it on your computer, you have convenient answers with Oxymatrine Treatment Of Viral Hepatitis In Basic And Clinicalchinese Edition To get started finding Oxymatrine Treatment Of Viral Hepatitis In Basic And Clinicalchinese Edition, you are right to find our website which has a comprehensive collection of books online. Our library is the biggest of these that have literally hundreds of thousands of different products represented. You will also see that there are specific sites catered to different categories or niches related with Oxymatrine Treatment Of Viral Hepatitis In Basic And Clinicalchinese Edition So depending on what exactly you are searching, you will be able tochoose ebook to suit your own need. Thank you for reading Oxymatrine Treatment Of Viral Hepatitis In Basic And Clinicalchinese Edition. Maybe you have knowledge that, people have search numerous times for their favorite readings like this Oxymatrine Treatment Of Viral Hepatitis In Basic And Clinicalchinese Edition, but end up in harmful downloads. Rather than reading a good book with a cup of coffee in the afternoon, instead they juggled with some harmful bugs inside their laptop. Oxymatrine Treatment Of Viral Hepatitis In Basic And Clinicalchinese Edition is available in our book collection an online access to it is set as public so you can download it instantly. Our digital library spans in multiple locations, allowing you to get the most less latency time to download any of our books like this one. Merely said, Oxymatrine Treatment Of Viral Hepatitis In Basic And Clinicalchinese Edition is universally compatible with any devices to read.

Find Oxymatrine Treatment Of Viral Hepatitis In Basic And Clinicalchinese Edition : parenting plan evaluations applied research for the family court paris love desiree cox

panelview 600 manual parker pillsbury radical abolitionist male feminist partitioned lives narratives of home displacement and resettlement

paradise lost paradise lost pandora box system guide paracord fusion ties 2 paranormal traveller book 5 a prince of plenty part manual jeep cj7

parents guide to student success kindergarten

participatory visual and digital methods developing qualitative inquiry paris thursday october 201983
paper towns by john green summary & analysis
pandemonium towards a retro organization theory

Oxymatrine Treatment Of Viral Hepatitis In Basic And Clinicalchinese Edition:

Starbucks Complete Training Manual | PDF | Coffee | Tea Starbucks Complete Training Manual - Free download as PDF File (.pdf), Text File (.txt) or read online for free. Starbucks Complete Training Manual. Updated Training Infographics! : r/starbucks my training was basically 12 hours of quick run-throughs of so many details. ... Simple ASA wallet approval guide pdf. 19 upvotes · 2 comments. r ... Starbucks employee training manual Starbucks employee schedule. There is always more to learn about the vast and wonderful world of coffee. The Starbucks Coffee Academy is designed to explore the ... Barista+orig+manual+sml.pdf Quick Guide To Starbucks Specialty Beverages." This brochure shows an ... Do NOT remove the screws from the bottom of your Starbucks Barista-. Rapporto- Filter. Starbucks Beverage Manual Study Flashcards Study with Quizlet and memorize flashcards containing terms like Espresso Recipe Basics* *Applies to the majority of hot espresso beverages, ... Create a group of three to five people. This guidebook will ... Around Starbucks coffee, and the theater and romance— but do it our way. First, by building a company that would achieve the balance between profit and social. Woman Prints Starbucks Training Guide to Make Drinks at ... Aug 7, 2023 — ... training manual to better represent the Starbucks drink making process. ... The primary guide appears to be a creation from a former Starbucks ... Starbucks Partner Manual Starbucks Partner Manual. Author / Uploaded; John Smith. Categories; Starbucks · Coffee · Drink · Beverages · Foods. Starbucks Barista Employee Playbook Guide ... The Ultimate Starbucks Barista Guide - Tips for ... Sep 20, 2017 — The Ultimate Starbucks Barista Guide - Tips for your Starbucks training ... starbucks espresso recipe with instructions on how to

make it in the ... Ford 601 Service Manual This is a Service Manual for the Ford 601 with 422 pages of important information pertaining to your Ford tractor. Full Description: 601 Gas, LP and Diesel ... Ford 601 & 801 Series Tractors - Owner's Manual - 1957.pdf www.ntractorclub.com. Page 2. www.ntractorclub.com. Page 3. www.ntractorclub.com. Page 4. www.ntractorclub.com. Page 5. www.ntractorclub.com. Page 6 ... Service Manual for Ford 600 900 601 1801 Tractor Repair ... Buy Service Manual for Ford 600 900 601 1801 Tractor Repair Shop Gas & Diesel: Spare & Replacement Parts -Amazon.com

☐ FREE DELIVERY possible on eligible ... Ford Service Manual - Tractor Oct 17, 2018 — Ford Service Manual -Tractor Series 600, 700, 800, 900, 501, 601, 701, 801, 901, 1801, 2000, and 4000 1954 - 1964. Manual for Ford 601 Workmaster model 681? Jun 14, 2002 — Order Ford 601 Parts Online · Discussion Forums >. Tractors >. Manual ... We have the parts you need to repair your tractor - the right parts. Ford 601 Tractor Service Manual (1957-1962) This Ford model 601 Gas, LP and Diesel Tractor Service Manual is a digitally enhanced reproduction of the original manufacturer-issued Shop Manual. This manual ... Ford 611 621 631 641 651 661 Workmaster Tractor ... Full Troubleshooting/Repair/Overhaul instructions for Gas and Diesel Tractors All 601 Series Tractors Complete manual for all components on the entire ... Ford Shop Manual Series 501 600 601 700 701 + (Fo-20) With a Haynes manual, you can do-it-yourself...from simple maintenance to basic repairs. Havnes writes every book based on a complete teardown of the ... Ford 600 700 800 900 601 701 801 901 1801 Tractor ... Thick, comprehensive manual.....Most complete and up-to-date original equipment manufacturers manual available. Includes all revisions if available. Free ... Ford 601 Tractor Service Manual (IT Shop) This I&T manual has 144 pages. Includes wiring diagrams for all models. This manual covers the following models. MODELS COVERED. FORD NEW HOLLAND SERIES. 1801, ... Música Civilización Occidental by Láng Paul Henry La musica en lal civilizacion occidental by Lang, Paul Henry and a great selection of related books, art and collectibles available now at AbeBooks.com. La música en la civilización occidental - Paul Henry Lang Paul Henry Lang. Edition, 2. Publisher, Editorial Universitaria de Buenos Aires, 1969. Length, 896 pages. Export Citation, BiBTeX EndNote RefMan · About Google ... La música en la civilización occidental by Lang, Paul Henry View all copies of this book. About this Item. Used Condition: Bien tapa blanda. Música. Géneros musicales. Métodos y estudios de Música para los distintos ... Music in western civilization: Lang, Paul Henry Book details · Print length. 1107 pages · Language. English · Publisher. W.W. Norton · Publication date. January 1, 1941 · See all details. la musica en la civilizacion occidental. paul h Be sure not to miss out on LA MUSICA EN LA CIVILIZACION OCCIDENTAL. PAUL H. Buy it at the best price in the section Other used history books ... PAUL HENRY LANG. la musica en la civilizacion occidental, paul h LA MUSICA EN LA CIVILIZACION OCCIDENTAL, PAUL HENRY LANG, ED. BUENOS AIRES 1979. Rústica con solapas. 896 páginas. Texto Doble columna. Música en la civilización occidental de Paul Henry Lang HC Sep 29, 2023 — Primera edición, séptima impresión. Publicado por W. W. Norton, 1941. Octavo en estuche. Tableros de tela marrón estampados en oro. El libro ... láng paul henry - música civilización occidental - Iberlibro La musica en lal civilizacion

occidental de Lang, Paul Henry y una gran selección de libros, arte y artículos de colección disponible en Iberlibro.com. La Musica En La Civilizacion Occidental Paul Henry Lang Envíos Gratis en el día [] Comprá La Musica En La Civilizacion Occidental Paul Henry Lang en cuotas sin interés! Conocé nuestras increíbles ofertas y ...