【19】中華民國

【12】專利公報 (B)

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發明 全 16 頁

【54】名 稱:一種微小核糖核酸 Let-7g 用於抗 C 型肝炎病毒的用途

THE USE OF LET-7G FOR ANTI-HEPATITIS C VIRUS

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【11】公開編號:201522646 【43】公開日期: 中華民國 104 (2015) 年 06 月 16 日

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【56】參考文獻:

Min Cheng et al. "High-Throughput Profiling of Alpha Interferon- and Interleukin-28BRegulated MicroRNAs and Identification of let-7s with Anti-Hepatitis C Virus Activity by Targeting IGF2BP1"J. Virol., September 2013, Vol. 87, pp. 9707-9718.

Yoshiki Murakami et al."Hepatic microRNA expression is associated with the response to interferon treatment of chronic hepatitis C"BMC Medical Genomics, 2010, Vol. 3:48, pp.1-13.

審查人員:林奕萍

【57】申請專利範圍

- 1. 一種微小核糖核酸 Let-7g 的用途,其係用於製備與干擾素(Interferon)及雷巴威林 (Ribavirin)合併使用具有協同上調 2'-5'寡腺苷酸合成酶(OAS)或粘病毒性蛋白(MxA)的作用以抑制 C 型肝炎病毒(HCV)之醫藥組合物。
- 2. 如請求項 1 所述的微小核糖核酸 Let-7g 的用途,其中該 C 型肝炎病毒係取自活體(in vivo) 複製子或感染細胞。
- 3. 如請求項 1 所述的微小核糖核酸 Let-7g 的用途,其中該 C 型肝炎病毒係取自體外(in vitro) 複製子或感染細胞。

圖式簡單說明

圖 1(A)~圖 1(C)示意 1(C)示意

(siRNA)皆可調控 Let-7g 的表達;圖 7 顯示預先評估干擾素/雷巴威林治療 C 型肝炎療效的方法的一實施例;圖 8 顯示評估干擾素/雷巴威林治療 C 型肝炎療效的方法的一實施例。

Let-7g 3' u u G A C A - U G U U U G A U G G A G u 5'

| | | | | | : | | | : : | | :

HCV 5'UTR 5' c c C T G T G A G G A A C T G T C T T c 3'

圖 1(A)

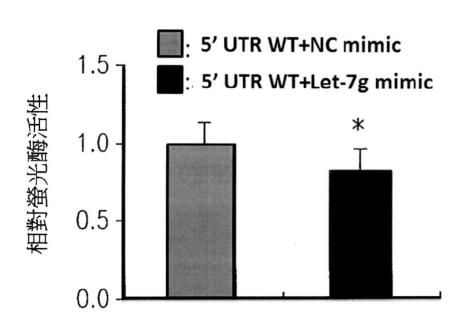
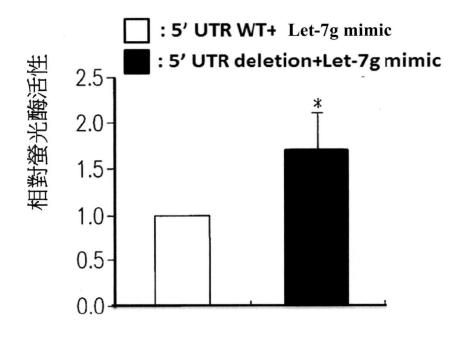
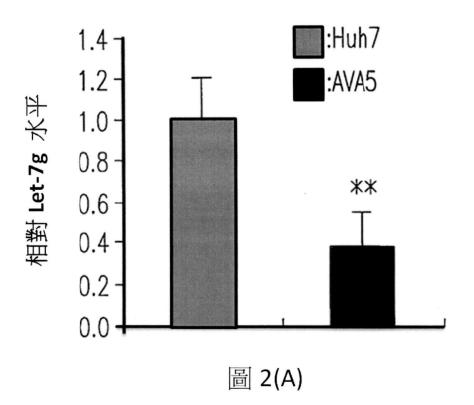
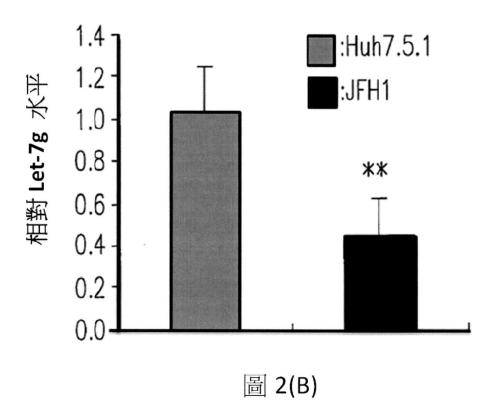


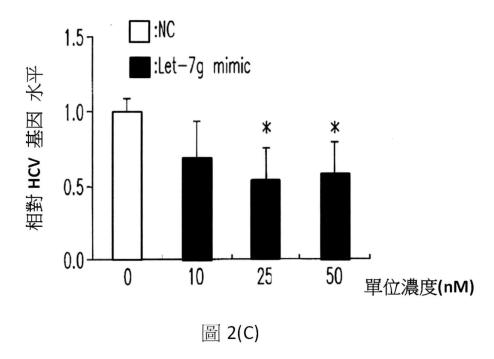
圖 1(B)

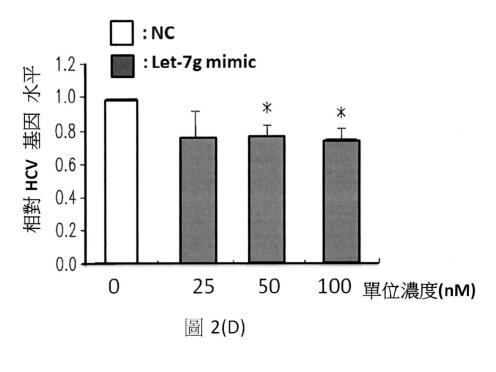










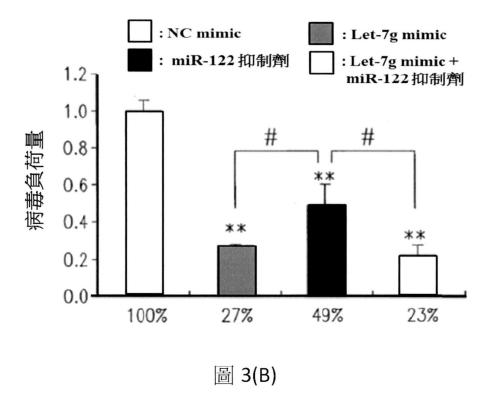




核心蛋白

GAPDH GAPDH

圖 3(A)



 JFH1
 +
 +
 +
 +
 +

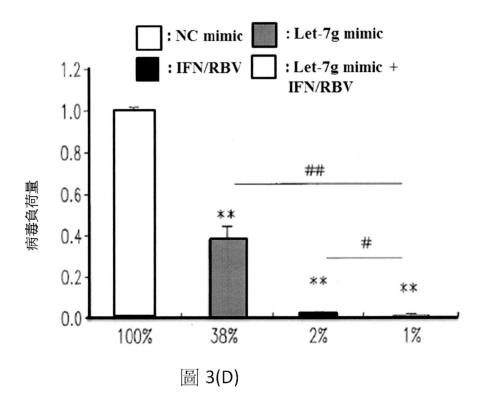
 NC miRNA
 +

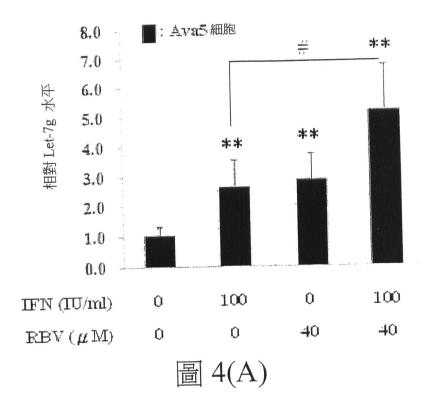
 Let-7g mimic
 +
 +
 +

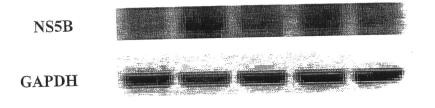
 IFN/RBV
 +
 +
 +

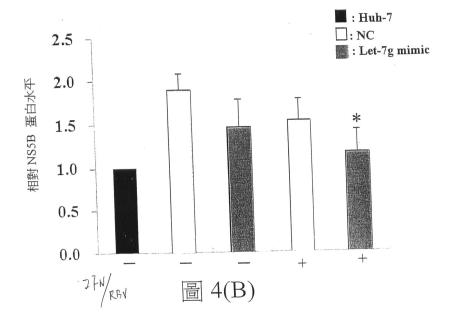
 核心蛋白
 GAPDH

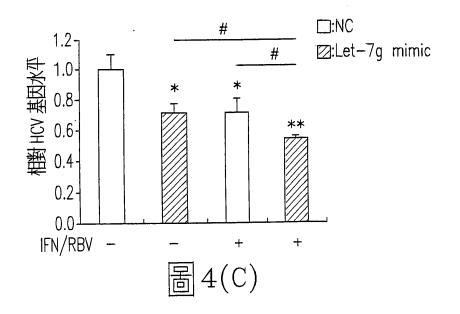
圖 3(C)

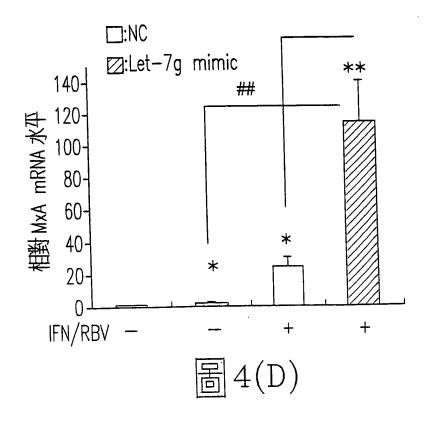


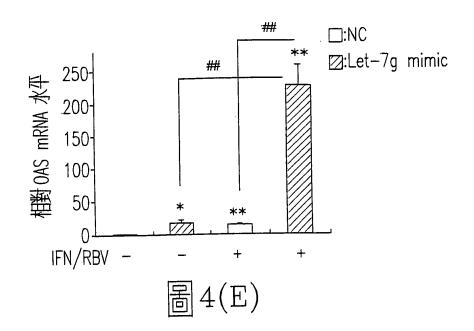


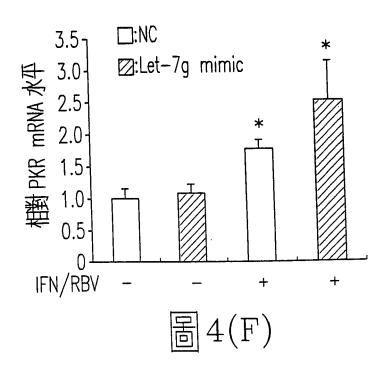


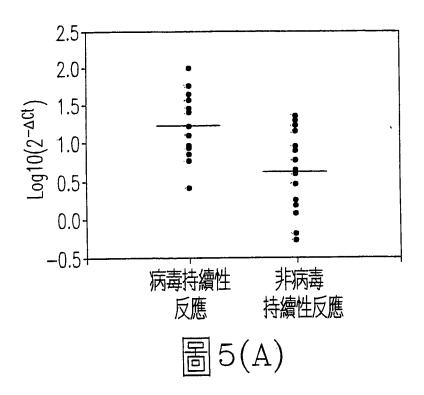




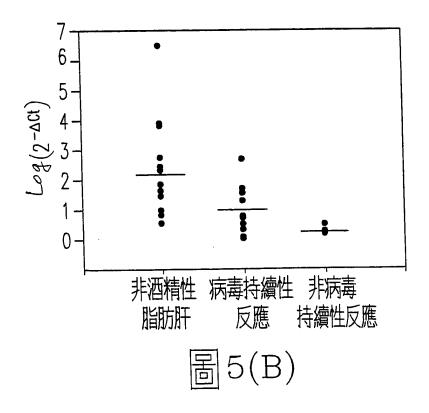


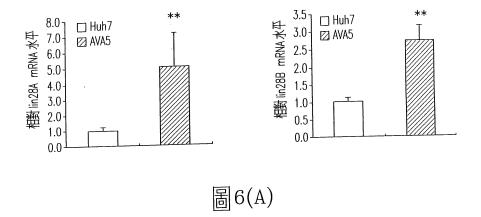


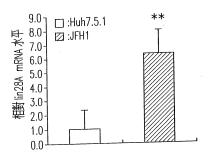




(11)







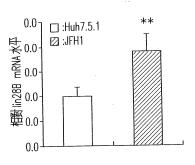
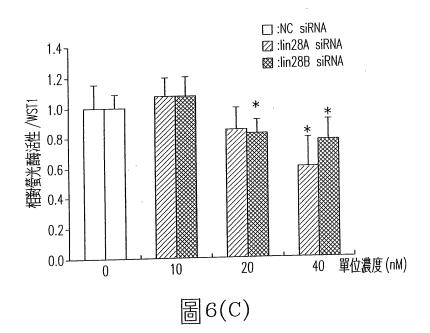
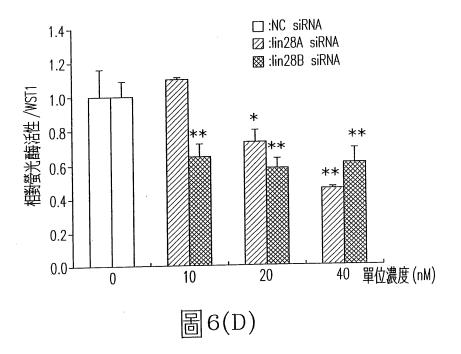
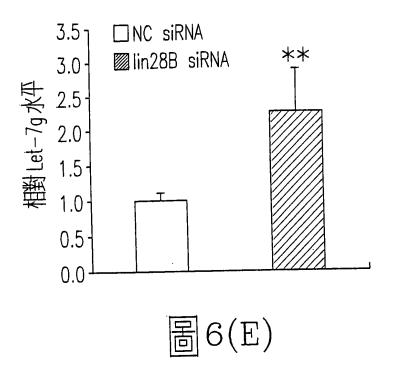
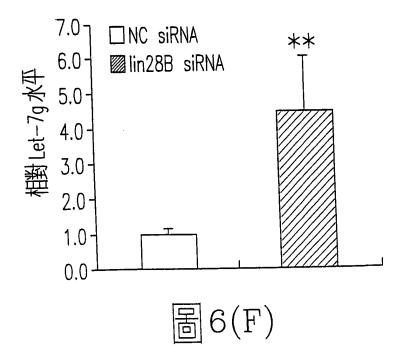


圖6(B)









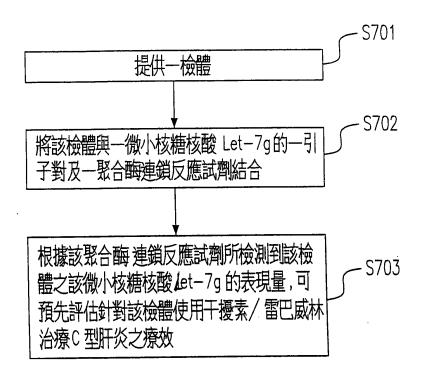


圖 7

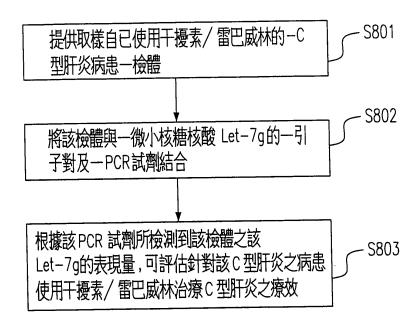


圖 8