



Article

Difluoromethylornithine (DFMO), an inhibitor of polyamine biosynthesis, and an antioxidant N-acetylcysteine potentiate immune response in mice to the recombinant hepatitis C virus NS5B protein

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Table S1. The immune response of mice to HCV NS5B when administered in a mixture with compounds.

| Group | Anti-NS5B antibody titers | | Lymphocyte proliferation, SI | IFN- γ secretion, pg/mL |
|---------|----------------------------|-------------|------------------------------|--------------------------------|
| | IgG1 | IgG2a | | |
| saline | 700 \pm 280 ¹ | 35 \pm 28 | 1.8 \pm 0.2 ² | 430 \pm 225 ² |
| NAC | 790 \pm 490 | 54 \pm 35 | 1.9 \pm 0.2 | 471 \pm 173 |
| DFMO | 857 \pm 420 | 49 \pm 29 | 1.7 \pm 0.3 | 527 \pm 164 |
| Control | 15 \pm 8 | 11 \pm 13 | 1.4 \pm 0.9 | 20 \pm 15 |

Each group (5 mice) received the recombinant protein HCV NS5B at a dose of 4 μ g/mice during three injections with two-week interval. NS5B was injected intraperitoneally in saline or in combination with NAC and DFMO at the dose 4 mg/mice. Humoral and cellular immunity was examined on days 9 after the third immunization. ¹ Values show the geometric mean titer \pm SD or ² mean \pm SD of fore measurements done from one experiment

Table S2. Relative content of T lymphocytes and dendritic cells in the splenocytes of mice immunized with recombinant HCV NS5B protein.

| Group | Th CD4+ | CTL CD8+ | DC CD11c+ |
|---------|----------------|---------------|---------------|
| saline | 11.5 \pm 1.7 | 3.8 \pm 0.3 | 3.5 \pm 0.3 |
| NAC | 12.4 \pm 0.6 | 4.1 \pm 0.2 | 4.2 \pm 0.1 |
| DFMO | 10.5 \pm 1.6 | 3.7 \pm 0.2 | 3.9 \pm 0.3 |
| CpG | 11.9 \pm 0.4 | 4.4 \pm 0.5 | 4.2 \pm 0.3 |
| Control | 12.1 \pm 1.7 | 3.9 \pm 0.4 | 3.9 \pm 0.5 |

Each group (5 mice) received the recombinant protein HCV NS5B at a dose of 4 μ g/mice during three injections with two-week interval. NS5B was injected subcutaneously in combination with saline or CpG, whereas NAC and DFMO – with drinking water. Splenocytes from the immunized mice were stained with anti-CD4, anti-CD8, and anti-CD11c antibodies and analyzed by flow cytometry. Values are means \pm SD (in the percentages) of three independent analyses, and each of them was performed in triplicate.