

# Ribavirin

Catalog No: tcsc2540

Available Sizes

**Size:** 100mg

Size: 200mg

Size: 500mg

Specifications

CAS No:

36791-04-5

Formula:

 $\mathrm{C_8H_{12}N_4O_5}$ 

**Pathway:** Anti-infection;Anti-infection

**Target:** 

RSV;HCV

**Purity / Grade:** 

## **Solubility:** H2O : ≥ 83.3 mg/mL (341.11 mM)

#### **Alternative Names:**

ICN-1229

### **Observed Molecular Weight:**

244.2

## **Product Description**

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Ribavirin is an **antiviral** agent against a broad spectrum of viruses including **HCV**, **HIVI**, and **RSV**.

*In Vitro:* Ribavirin (5, 10 and 20  $\mu$ M) does not produce any significant effect on neither cell viability nor nitrites level in non-stimulated microglia. Treatment

of LPS-stimulated microglia with 5, 10 and 20  $\mu$ M Ribavirin induces reduction of NO<sub>2</sub> levels for 43% (p[3]. Ribavirin is active against DENV, with an EC<sub>50</sub> of 3  $\mu$ M in A549 cells, and combination of CM-10-18 with ribavirin demonstrates a clear enhancement in the reduction of virus replication<sup>[4]</sup>.

*In Vivo:* ALT, AST activities and bilirubin levels are significantly loared by administration of JAT in combination with interferon and ribavirin (p4, livers appear to exhibit some liver protection against  $CCl_4$  as evident by the presence of normal hepatic cords, absence of necrosis and lesser fatty infiltration. Groups treated with JAT, Peg-interferon and ribavirin separately or in combination shows reduction in the expression of TGF-  $\beta$  and Bax. In the group treated by triple combination of interferon, ribavirin, and JAT, the expression level of p53 is markedly reduced<sup>[1]</sup>. Ribavirin capsules (400 mg of ribavirin)-treated Wistar rats show a significant decrease in activin-A and significant increase in follistatin at the serum and liver levels. Ribavirin has strong antiviral activity only when ribavirin is combined with either IFN- $\alpha$  or Peg-IFN- $\alpha$ <sup>[2]</sup>. Ribavirin (40 mg/kg, p.o.) significantly improves the antiviral efficacy of CM-10-18 in mice. Ribavirin inhibits DENV virus infection in cultured cells, but it is ineffective in reducing viremia in monotherapy<sup>[4]</sup>.



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