Ribavirin (ICN-1229)

Catalog No.C08620 Batch:C0862003

Product Datasheet

Technical Data

Formula	$C_8H_{12}N_4O_5$					
Molecular Weight	244.20864	**CAS No.**	36791-04-5			
Solubility (25°C)*	In vitro	DMSO	49 mg/mL (200.64 mM)			
		Water	49 mg/mL (200.64 mM)			
		Ethanol	Insoluble			
	In vivo (Add solvents to the product individually and in order)	Oral Administration	Homogeneous suspension	CMC-NA	≥5mg/ml	Taking the 1 mL working solution as an example, add 5 mg of this product to 1 ml of CMC-Na solution, mix evenly to obtain a homogeneous suspension with a final concentration of 5 mg/ml.

* <1 mg/ml means slightly soluble or insoluble.
* Please note that Capsid Bio tests the solubility of all compounds in-house, and the actual solubility may differ slightly from published values. This is normal and is due to slight batch-to-batch variations.
* Room temperature shipping (Stability testing shows this product can be shipped at 2-8°C for storage purposes.)

Preparing Stock Solutions

Biological Activity

Description	Ribavirin (NSC-163039, ICN-1229, RTCA, Tribavirin), a synthetic guanosine analogue, possesses a broad spectrum of activity against DNA and RNA viruses.
In vitro	Ribavirin (ICN-1229) significantly reduces the efficiency with which progeny subgenomic replicons transfect new cells in the replicon system, although it has little effect on levels of HCV replication. This compound increases the mutation frequency of HCV, with the highest rates of mutations being found in the NS5A-encoding region. It enhances TH1 while inhibiting T 2 cytokine production by stimulated T cells. [1] Ribavirin shows antiviral activity against a variety of RNA viruses and is used in combination with interferon-alpha to treat hepatitis C virus infection. It reduces infectious poliovirus production to as little as 0. 00001% in cell culture. [2] Its antiviral activity is exerted directly through lethal mutagenesis of the viral genetic material. [3] This compound markedly reduces viral-induced parameters of macrophage activation at physiologic concentrations (up to 500 mg/mL). It inhibits the production of IL-4 by Th2 cells, whereas it does not diminish the production of IFN-gamma in Th1 cells. [4] Ribavirin exhibits antiviral activity against a broad range of both DNA and RNA viruses in vitro. It is a cytostatic agent and causes a reduction in synthesis of DNA, RNA and proteins in exposed cells. It is thought to induce a switch in T-helper cell phenotype from type 2 to type 1. [5]

References

https://pubmed.ncbi.nlm.nih.gov/16107837/ https://pubmed.ncbi.nlm.nih.gov/11100123/ https://pubmed.ncbi.nlm.nih.gov/11371613/

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RETURN POLICY

Capsid Bio's Unconditional Return Policy ensures a smooth online shopping experience for our customers. If you are in any way unsatisfied with your purchase, you may return any item(s) within 7 days of receiving it. In the event of product quality issues, either protocol related or product related problems, you may return any item(s) within 365 days from the original purchase date. Please follow the instructions below when returning products.

SHIPPING & STORAGE

Capsid Bio products are transported at room temperature. If you receive the product at room temperature, please rest assured, the Capsid Bio Quality Inspection Department has conducted experiments to verify that the normal temperature placement of one month will not affect the biological activity of powder products. After collecting, please store the product according to the requirements described in the datasheet. Most Capsid Bio products are stable under the recommended conditions.

NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

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