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DATASHEET

Ribavirin

Product overview

Name	Ribavirin
Cat No	HB4522
Biological action	Blocker
Purity	>98%
Description	Guanosine analog with antiviral activity

Biological Data

Biological description Guanosine analog with broad spectrum antiviral activity (agonist DNA and RNA viruses). Shows antiviral activity against a number of viruses including SARS-CoV.

Also shows anti-cancer activity.

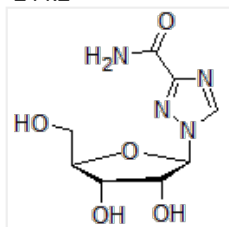
Solubility & Handling

Storage instructions	+4 °C
Solubility overview	Soluble in water (100mM) and DMSO (100mM)
Important	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use

Chemical Data

Chemical name 1-β-D-Ribofuranosyl-1H-1,2,4-triazole-3-carboxamide
Molecular Weight 244.2

Chemical structure



Molecular Formula	C ₈ H ₁₂ N ₄ O ₅
CAS Number	36791-04-5
PubChem identifier	37542
SMILES	O[C@@H]1[C@@H](CO)O[C@@H](N2C=NC(C(N)=O)=N2)[C@@H]1O
InChi	InChI=1S/C8H12N4O5/c9-6(16)7-10-2-12(11-7)8-5(15)4(14)3(1-13)17-8/h2-5,8,13-15H,1H2,(H2,9,16)/t3-,4-,5-,8-/m1/s1
InChiKey	IWUCXVSUMQZMFG-AFCXAGJDSA-N
MDL number	MFCD00058564
Appearance	White solid

References

**Ribavirin, Remdesivir, Sofosbuvir, Galidesivir, and Tenofovir against SARS-CoV-2 RNA dependent RNA polymerase (RdRp):
A molecular docking study**

Elfiky AA (2020) Life Sci 253

PubMedID [32222463](#)

Inhibition of SARS coronavirus infection in vitro with clinically approved antiviral drugs

Tan EL *et al* (2004) Emerg Infect Dis 10(4)

PubMedID [15200845](#)

Ribavirin suppresses eIF4E-mediated oncogenic transformation by physical mimicry of the 7-methyl guanosine mRNA cap

Kentsis A *et al* (2004) Proc Natl Acad Sci U S A 101(52)

PubMedID [15601771](#)
