

DATA SHEET

Product Name: Ribavirin

Catalog #: CV-1046

Alt: CAS # 36791-04-5

Molecular Mass: 244.2

Analysis: >98% (HPLC); NMR (conforms)

Supplied As: White powder

Resuspension: May be dissolved in DMSO (25 mg/ml); or water (25 mg/ml)

Storage: Store desiccated as supplied at -20°C for up to 2 years. Store solutions at -20°C for up to one month.

Description: Clinically useful antiviral guanosine nucleoside analog, active against RSV, hepatitis C¹ and other RNA and DNA viruses². Binds to and redistributes eIF4E from the nucleus to the cytoplasm³ and inhibits eIF4E-dependent Akt survival signaling⁴. Displays efficacy against atypical teratoid/rhabdoid tumors⁵ and inhibits glioma cell growth⁶. A molecular docking study suggests effectiveness against SARS-CoV-2 RNA-dependent RNA polymerase⁷.

References:

1. Bougie, I., and Bisailon, M., (2003) J. Biol. Chem., 278 : 52471
2. Crotty, S., et al., (2000) Nat. Med., 6 : 1375
3. Kentsis, A., et al., (2004) Proc. Natl. Acad. Sci. USA, 101: 18105
4. Tan, K., et al., (2008) Biochem. Biophys. Res. Commun., 375 : 341
5. Casaos, J., et al., (2018) Oncotarget, 9 : 8054
6. Volpin, F., et al., (2017) Oncogene, 36 : 3037
7. Elfiky, A.A., (2020) Life Sci., 117592 (epub ahead of print)

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