

Ribavirin

Catalog Number :3670451

RUO: For Research Use Only. Not for use in diagnostic procedures.

Product Information

Synonyms: Rebetol, Tribavirin, Ribamidyl, Virazole, Copegus, Ribasphere

Chemical Name: 1-[(2R,3R,4S,5R)-3,4-dihydroxy-5-(hydroxymethyl)oxolan-2-yl]-1,2,4-triazole-3-carboxamide

Molecular Formula: C₈H₁₂N₄O₅

Molecular Weight: 244.2

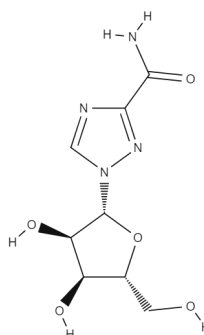
CAS Number: 36791-04-5

Purity: 95%

Applications: FA

Formulation: Crystalline solid

Storage: Product should be kept at -20°C.



Description

Ribavirin is an antiviral guanosine ribonucleoside analog. It is a prodrug that metabolizes into a form resembling purine RNA nucleosides and interferes with RNA metabolism and induces mutations in RNA-dependent replication. It is currently being researched as a potential treatment for COVID-19.

Preparation & Storage

Soluble in organic solvents such as DMF and DMSO. Soluble in DMSO up to 11mg/ml.

References

1. Khalili, J. S., Zhu, H., Mak, A., Yan, Y., Zhu, Y. (2020). Novel coronavirus treatment with ribavirin: Groundwork for evaluation concerning COVID-19.; *Journal of medical virology*.
2. Glue, P. (1999). The clinical pharmacology of ribavirin. In: *Seminars in liver disease*; (Vol. 19, pp. 17-24).
3. Crotty, S., Maag, D., Arnold, J. J., Zhong, W., Lau, J. Y., Hong, Z., ... Cameron, C. E. (2000). The broad-spectrum antiviral ribonucleoside ribavirin is an RNA virus mutagen.; *Nature medicine*; 6(12), 1375-1379.