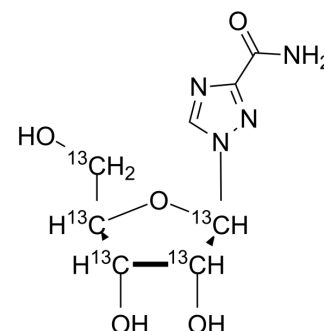


## Ribavirin-<sup>13</sup>C<sub>5</sub>

<b>Cat. No.:</b>	HY-B0434S
<b>CAS No.:</b>	1646818-35-0
<b>Molecular Formula:</b>	C <sub>3</sub> <sup>13</sup> C <sub>5</sub> H <sub>12</sub> N <sub>4</sub> O <sub>5</sub>
<b>Molecular Weight:</b>	249.17
<b>Target:</b>	RSV; HCV; Antibiotic; Isotope-Labeled Compounds
<b>Pathway:</b>	Anti-infection; Others
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	Ribavirin- <sup>13</sup> C <sub>5</sub> is the <sup>13</sup> C-labeled Ribavirin. Ribavirin (ICN-1229) is an antiviral agent against a broad spectrum of viruses including HCV, HIV1, and RSV.
<b>In Vitro</b>	Stable heavy isotopes of hydrogen, carbon, and other elements have been incorporated into drug molecules, largely as tracers for quantitation during the drug development process. Deuteration has gained attention because of its potential to affect the pharmacokinetic and metabolic profiles of drugs <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

- [1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother.* 2019;53(2):211-216.
- [2]. Chang J, et al. Combination of α-glucosidase inhibitor and ribavirin for the treatment of dengue virus infection in vitro and in vivo. *Antiviral Res.* 2011 Jan;89(1):26-34
- [3]. Abdel-Hamid NM, et al. Synergistic Effects of Jerusalem Artichoke in Combination with Pegylated Interferon Alfa-2a and Ribavirin Against Hepatic Fibrosis in Rats. *Asian Pac J Cancer Prev.* 2016;17(4):1979-85.
- [4]. Refaat B, et al. The effects of pegylated interferon-α and ribavirin on liver and serum concentrations of activin-A and follistatin in normal Wistar rat: a preliminary report. *BMC Res Notes.* 2015 Jun 26;8:265
- [5]. Savic D, et al. Ribavirin shows immunomodulatory effects on activated microglia. *Immunopharmacol Immunotoxicol.* 2014 Dec;36(6):433-41

**Caution: Product has not been fully validated for medical applications. For research use only.**

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA