

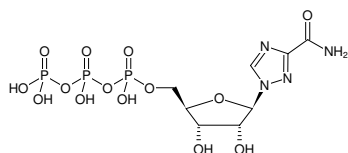


## Ribavirin-triphosphate

Sodium Salt

1-β-D-Ribofuranosyl-1,2,4-triazole-3-carboxamide-5'-triphosphate, Sodium salt

Cat. No.	Amount
NU-1105S	20 µl (10 mM)
NU-1105L	5 x 20 µl (10 mM)



Structural formula of Ribavirin-triphosphate

### For general laboratory use.

**Shipping:** shipped on gel packs

**Storage Conditions:** store at -20 °C

Short term exposure (up to 1 week cumulative) to ambient temperature possible.

**Shelf Life:** 12 months after date of delivery

**Molecular Formula:** C<sub>8</sub>H<sub>15</sub>N<sub>4</sub>O<sub>14</sub>P<sub>3</sub> (free acid)

**Molecular Weight:** 484.14 g/mol (free acid)

**Exact Mass:** 483.98 g/mol (free acid)

**CAS#:** 63142-71-2

**Purity:** ≥ 95 % (HPLC)

**Form:** solution in water

**Color:** colorless to slightly yellow

**Concentration:** 10 mM - 11 mM

**pH:** 7.5 ±0.5

**Spectroscopic Properties:** λ<sub>max</sub> 230 nm, ε 3.6 L mmol<sup>-1</sup> cm<sup>-1</sup> (Tris-HCl pH 7.5)

### Selected References:

Kiso *et al.* (2010) T-705 (favipiravir) activity against lethal H5N1 influenza A viruses. *Proc. Natl. Acad. Sci. USA.* **107** (2):882.

Maag *et al.* (2001) Hepatitis C virus RNA-dependent RNA polymerase (NS5B) as a mediator of the antiviral activity of ribavirin. *J. Biol. Chem.* **276** (49):46094.

Lanford *et al.* (2001) Ribavirin induces error-prone replication of GB virus B in primary tamarin hepatocytes. *J. Virol.* **75** (17):8074.

Crotty *et al.* (2000) The broad-spectrum antiviral ribonucleoside ribavirin is an RNA virus mutagen. *Nat. Med.* **6** (12):1375.

Ulrich *et al.* (2000) Towards the engineering of an orthogonal protein kinase/nucleotide triphosphate pair. *Tetrahedron* **56** (48):9495.

Hong *et al.* (1999) Direct antiviral activity of ribavirin: Hepatitis C virus NS5B polymerase incorporates ribavirin triphosphate into nascent RNA products. *Hepatology* **30** (4):773 Part 2 Suppl. S.

Jarvis *et al.* (1998) Ribavirin uptake by human erythrocytes and the involvement of nitrobenzylthioinosine-sensitive (es)- nucleoside transporters. *Brit. J. Pharmacol.* **123** (8):1587.

Hosoya *et al.* (1993) Comparative inhibitory effects of various nucleoside and nonnucleoside analogs on replication of influenza-virus type-A and type-B in-vitro and in-vivo. *J. Infect. Dis.* **168** (3):641.

Wray *et al.* (1985) Effect of ribavirin triphosphate on primer generation and elongation during influenza-virus transcription invitro. *Antivir. Res.* **5** (1):39.

Eriksson *et al.* (1977) Inhibition of influenza-virus ribonucleic-acid polymerase by ribavirin triphosphate. *Antimicrob. Agents Ch.* **11** (6):946.