
Product Data Sheet

Product Name: Ribavirin 5'-monophosphate (lithium salt)

Cat. No.: GC18659

Chemical Properties

Cas. No. 66983-94-6

Chemical Name 1-(5-O-phosphono-β-D-ribofuranosyl)-1H-1,2,4-triazole-3-carboxamide, dilithium salt

SMILES O[C@@H]1[C@@H](COP([O-])([O-])=O)[C@@H](N2N=C(C(N)=O)N=C2)[C@@H]1O.[Li+].[Li+]

Formula C₈H₁₁N₄O₈P.2Li M.Wt 336.1

Solubility PBS (pH 7.2): 10 mg/ml Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure

Background

Ribavirin 5'-monophosphate inhibits viral DNA and RNA replication in vitro via the strong competitive inhibition of inosine monophosphate dehydrogenase (IMPDH), with a reported Ki value of 270 nM, and thus inhibits guanosine triphosphate synthesis. This agent, a metabolite of the prodrug ribavirin , exhibits broad-spectrum antiviral activity, particularly against myxoviruses. The antiviral effects of ribavirin require conversion to the monophosphate form via adenosine kinase. The anti-HIV activity of ribavirin in cultured human lymphocytes, as well as the anti-influenza activity of this prodrug in MDCK cells, have been attributed to ribavirin 5'-monophosphate.

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

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