
Product Data Sheet

Product Name: Taribavirin

Cat. No.: GC37740

Chemical Properties

Cas. No. 119567-79-2

SMILES N=C(C1=NN([C@H]2[C@@H]([C@@H]([C@@H](CO)O2)O)O)C=N1)NFormula $C_8H_{13}N_5O_4$ M.Wt 243.22

Solubility Soluble in DMSO 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**

Taribavirin is an inosine monophosphate dehydrogenase inhibitor, has activity against a wide range of viruses, especially the hepatitis C virus and influenza virus[1]. Taribavirin, is a ribavirin prodrug, is designed to concentrate within the liver to target HCV-infected hepatocytes while minimizing distribution within red blood cells (RBCs) and the development of hemolytic anemia[2].

Taribavirin (0-2 μM; 24 hours) significantly induces MCF-7 cell death, recording half inhibitory effect (IC50) of 0.756 μM in MCF-7 cells[1]. Cell Viability Assay[1] Cell Line: MCF-7 cells

[1]. Abd-Rabou AA, et al. Taribavirin and 5-Fluorouracil-Loaded Pegylated-Lipid Nanoparticle Synthesis, p38 Docking, and Antiproliferative Effects on MCF-7 Breast Cancer. *Pharm Res.* 2018 Feb 27;35(4):76. [2]. Deming P, et al. Taribavirin in the treatment of hepatitis C. *Expert Opin Investig Drugs.* 2011 Oct;20(10):1435-43.

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

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