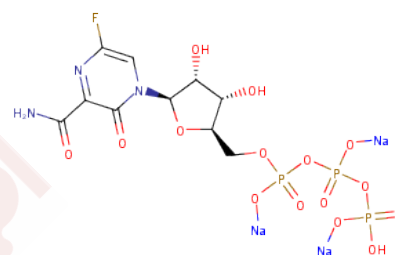


T-705RTP sodium

Chemical Properties

CAS No. : 356783-10-3
 Formula: C₁₀H₁₅FN₃NaO₁₅P₃
 Molecular Weight: 552.145
 Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
 Actual storage temperature shall be subject to the COA.



Biological Description

Description	T-705RTP sodium is a selective and GTP-competitive of influenza virus RNA polymerase (IC ₅₀ of 0.14 μM and a K _i of 1.52 μM), has potent anti-influenza virus activity.
Targets(IC ₅₀)	Others
In vitro	T-705RTP sodium and T-705RMP are detected in MDCK cells treated with T-705. influenza virus RNA polymerase activity in a dose-dependent and a GTP-competitive manner inhibited by T-705RTP sodium[1]. T-705RTP sodium inhibits the incorporation of ATP and GTP in a competitive manner (K _i of 7.72 and 1.56 μM, respectively). T-705RTP sodium inhibits the incorporation of CTP in a mixed-type manner(K _i of 11.3 μM), and also inhibits the incorporation of UTP in a noncompetitive manner[2]. The incorporation of a single molecule of T-705RTP (10-1000 μM) inhibits influenza virus RNA strand extension [2].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.8111 mL	9.0555 mL	18.111 mL
5 mM	0.3622 mL	1.8111 mL	3.6222 mL
10 mM	0.1811 mL	0.9056 mL	1.8111 mL
50 mM	0.0362 mL	0.1811 mL	0.3622 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Furuta Y, et al. Mechanism of action of T-705 against influenza virus. *Antimicrob Agents Chemother.* 2005 Mar;49(3):981-6.

Sangawa H, et al. Mechanism of action of T-705 ribosyl triphosphate against influenza virus RNA polymerase. *Antimicrob Agents Chemother.* 2013 Nov;57(11):5202-8.

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