
Product Data Sheet

Product Name: T-705RTP sodium

Cat. No.: GC61500

Chemical Properties

Cas. No. 356783-10-3

SMILES O[C@H]1[C@H](N2C(C(C(N)=O)=NC(F)=C2)=O)O[C@H](COP(OP(OP(O)(O[Na])=O)(O[Na])=O)(O[Na])=O)[C@H]1O

Formula	C ₁₀ H ₁₂ FN ₃ Na ₃ O ₁₅ P ₃	M.Wt	595.1
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Solubility	Storage	Store at -20°C
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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

T-705RTP sodium is a selective and GTP-competitive influenza virus RNA polymerase inhibitor with an IC₅₀ of 0.14 μM and a K_i of 1.52 μM. T-705RTP sodium is the active triphosphate metabolite of T-705 and has potent anti-influenza virus activity[1][2].

T-705RTP sodium and T-705RMP are detected in MDCK cells treated with T-705. T-705RTP sodium inhibits influenza virus RNA polymerase activity in a dose-dependent and a GTP-competitive manner[1]. T-705RTP sodium inhibits the incorporation of ATP and GTP in a competitive manner with K_i values of 7.72 and 1.56 μM, respectively. T-705RTP sodium inhibits the incorporation of CTP in a mixed-type manner with a K_i value 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 sodium (10-1000 μM) inhibits influenza virus RNA strand extension[2].

[1]. Furuta Y, et al. Mechanism of action of T-705 against influenza virus. *Antimicrob Agents Chemother.* 2005 Mar;49(3):981-6. [2]. Sangawa H, et al. Mechanism of action of T-705 ribosyl triphosphate against influenza virus RNA polymerase. *Antimicrob Agents*

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

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Chemother. 2013 Nov;57(11):5202-8.

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