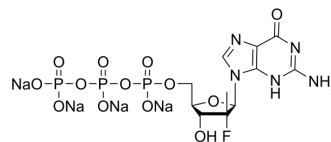


AT-9010 tetrasodium

Cat. No.:	HY-139165A
CAS No.:	1621884-18-1
Molecular Formula:	C ₁₁ H ₁₃ N ₅ Na ₄ O ₁₃ P ₃
Molecular Weight:	627.13
Target:	SARS-CoV
Pathway:	Anti-infection
Storage:	-80°C, protect from light, stored under nitrogen



SOLVENT & SOLUBILITY

In Vitro	H ₂ O : 100 mg/mL (159.46 mM; Need ultrasonic)						
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg	
				1 mM	1.5946 mL	7.9728 mL	15.9457 mL
				5 mM	0.3189 mL	1.5946 mL	3.1891 mL
				10 mM	0.1595 mL	0.7973 mL	1.5946 mL
Please refer to the solubility information to select the appropriate solvent.							
In Vivo	1. Add each solvent one by one: PBS Solubility: 100 mg/mL (159.46 mM); Clear solution; Need ultrasonic						

BIOLOGICAL ACTIVITY

Description	AT-9010 tetrasodium, a triphosphate active metabolite of AT-527, is a potent inhibitor of NiRAN (a function essential for viral replication). AT-9010 tetrasodium can inhibit SARS-CoV-2 replication ^[1] .
IC ₅₀ & Target	NiRAN ^[1]
In Vitro	Substantial levels of the active triphosphate metabolite AT-9010 are formed in normal human bronchial and nasal epithelial cells incubated with 10 μM AT-511 (698 μM and 236 μM, respectively), with a half-life of at least 38 hours ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

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- Cell. 2022 Nov 10;185(23):4347-4360.e17.

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REFERENCES

[1]. Atea Pharmaceuticals Announces Publication of Preclinical Data Highlighting Potent Activity of AT-527 Against SARS-CoV-2. BOSTON, Feb. 08, 2021. Atea Pharmaceuticals, Inc.

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

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