

EIDD-2749

## Chemical Properties

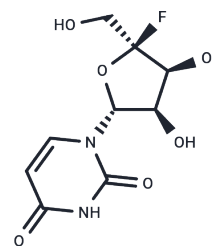
CAS No. : 1613589-24-4

Formula: C<sub>9</sub>H<sub>11</sub>FN<sub>2</sub>O<sub>6</sub>

Molecular Weight: 262.19

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	EIDD-2749 (4'-FLU), a ribonucleoside analog, is an orally available RdRp inhibitor with spectroscopic antiviral activity that interrupts the replication of respiratory syncytial virus and SARS-CoV-2. EIDD-2749 attenuates lethal infections of pandemic human and highly pathogenic avian influenza viruses.
Targets(IC50)	Antiviral, HCV Protease, RSV, SARS-CoV
In vitro	EIDD-2749 (20 μM) is effective in synthesizing metabolism in HAE cells and is effective on human airway epithelial organoids[1].
In vivo	In Balb/cj mice (RSV infection model), EIDD-2749 (0.2, 1, 5 mg/kg; oral administration; once daily for 4 days) resulted in a statistically significant reduction in lung virus load[1].

## Solubility Information

Solubility	DMSO: 15 mg/mL (57.21 mM), Sonication is recommended. H <sub>2</sub> O: 50 mg/mL (190.7 mM), Sonication is recommended. ( $< 1$ mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (7.63 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

### Preparing Stock Solutions

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	1mg	5mg	10mg
1 mM	3.814 mL	19.0701 mL	38.1403 mL
5 mM	0.7628 mL	3.814 mL	7.6281 mL
10 mM	0.3814 mL	1.907 mL	3.814 mL
50 mM	0.0763 mL	0.3814 mL	0.7628 mL

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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

Sourimant J, et al. 4'-Fluorouridine is an oral antiviral that blocks respiratory syncytial virus and SARS-CoV-2 replication. *Science*. 2022 Jan 14;375(6577):161-167.

Abas AH, et al. 4'-fluorouridine and its derivatives as potential COVID-19 oral drugs: a review [version 1; peer review: 1 approved with reservations, 1 not approved]. *F1000Research* 2022, 11:410.

George R. Painter, et al. 4'-halogen containing nucleotide and nucleoside therapeutic compositions and uses related thereto. Patent WO2019173602A1.

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