

(+) -JNJ-A07

## Chemical Properties

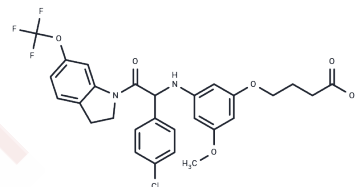
CAS No. : 2135640-93-4

Formula: C<sub>28</sub>H<sub>26</sub>ClF<sub>3</sub>N<sub>2</sub>O<sub>6</sub>

Molecular Weight: 578.96

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	(+) -JNJ-A07 is a pan-serotypic dengue virus inhibitor that targets NS3-NS4B interaction with high potency. (+) -JNJ-A07 has antiviral activity and can be used to study dengue virus infections.
Targets(IC50)	Anti-infection, Virus Protease
In vitro	(+) -JNJ-A07 exhibits nanomolar to picomolar activity against clinical isolates of 21 serotypes of dengue fever virus and can prevent the formation of viral replication complexes by blocking the interaction between two viral proteins (NS3 and NS4B)[1].

## Solubility Information

Solubility	DMSO: 80 mg/mL (138.18 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: 3.3 mg/mL (5.7 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	1.7272 mL	8.6362 mL	17.2724 mL
5 mM	0.3454 mL	1.7272 mL	3.4545 mL
10 mM	0.1727 mL	0.8636 mL	1.7272 mL
50 mM	0.0345 mL	0.1727 mL	0.3454 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

Kaptein SJF, et al. A pan-serotype dengue virus inhibitor targeting the NS3-NS4B interaction [published correction appears in Nature. 2021 Nov;599(7883):E2]. Nature. 2021;598(7881):504-509.

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