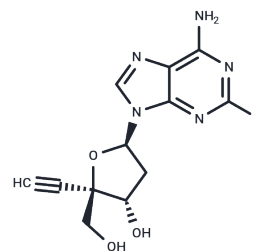


## Islatravir

## Chemical Properties

|                   |                                                                                                                     |
|-------------------|---------------------------------------------------------------------------------------------------------------------|
| CAS No. :         | 865363-93-5                                                                                                         |
| Formula:          | C <sub>12</sub> H <sub>12</sub> FN <sub>5</sub> O <sub>3</sub>                                                      |
| Molecular Weight: | 293.25                                                                                                              |
| Storage:          | Powder: -20°C for 3 years   In solvent: -80°C for 1 year<br>Actual storage temperature shall be subject to the COA. |



## Biological Description

|                            |                                                                                                                                                                                                                              |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description                | Islatravir (MK-8591) is an effective anti-HIV-1 agent. It acts as a nucleoside reverse transcriptase inhibitor (EC <sub>50</sub> s: 0.068 nM, 3.1 nM, and 0.15 nM for HIV-1 (WT), HIV-1 (M184V), HIV-1 (MDR), respectively). |
| Targets(IC <sub>50</sub> ) | HIV Protease,Reverse Transcriptase                                                                                                                                                                                           |

## Solubility Information

|                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Solubility          | H <sub>2</sub> O: 3 mg/mL (10.23 mM),Sonication and heating to 60°C are recommended.<br>DMSO: 100 mg/mL (341.01 mM),Sonication is recommended.<br>(< 1 mg/ml refers to the product slightly soluble or insoluble)                                                                                                                                                                                                                                                                                         |
| In vivo Formulation | 10% DMSO+40% PEG300+5% Tween 80+45% Saline: 4 mg/mL (13.64 mM),Sonication is recommended.<br><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

|       | 1mg       | 5mg        | 10mg       |
|-------|-----------|------------|------------|
| 1 mM  | 3.4101 mL | 17.0503 mL | 34.1006 mL |
| 5 mM  | 0.682 mL  | 3.4101 mL  | 6.8201 mL  |
| 10 mM | 0.341 mL  | 1.705 mL   | 3.4101 mL  |
| 50 mM | 0.0682 mL | 0.341 mL   | 0.682 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

Ohri H, et al. 2'-deoxy-4'-C-ethynyl-2-fluoroadenosine, a nucleoside reverse transcriptase inhibitor, is highly potent against all human immunodeficiency viruses type 1 and has low toxicity. Chem Rec. 2006;6(3):133-43.

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