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## Product Data Sheet

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Product Name: MIV-150 (PC 815)

Cat. No.: GC32390

### Chemical Properties

Cas. No. 231957-54-3

SMILES O=C(N[C@@H]1[C@H](C2=C(F)C=CC(C(C)=O)=C2O)C1)NC3=NC=C(C#N)C=C3

Formula C19H17FN4O3 M.Wt 368.36

Solubility DMF: 30 mg/mL, DMSO: 30 mg/mL, DMSO:PBS(pH 7.2) (1:3): 0.25 mg/mL, Ethanol: 0.25 mg/mL

Store  
Storage at -  
20°C

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 sizes: ship with RT, or blue ice upon request.

Structure 

### Background

MIV-150 is a tight-binding, allosteric inhibitor of reverse transcriptase that is active against HIV-1 and HIV-2 (both EC<sub>50</sub>s = 1 nM *in vitro*).<sup>1</sup> It has been shown to inactivate viruses that are resistant to other antiviral drugs, including non-nucleoside reverse transcriptase inhibitors, nucleoside reverse transcriptase inhibitors, and protease inhibitors.<sup>1</sup> Although MIV-150 possesses poor oral bioavailability, it demonstrates efficacy when formulated as a topical microbicide.<sup>2,3</sup>

1. Fernández-Romero, J.A., Thorn, M., Turville, S.G., et al. Carrageenan/MIV-150 (PC-815), a combination microbicide. *Sex. Transm. Dis.* 34(1)9-14(2007) 2. Turville, S.G., Aravantinou, M., Miller, T., et al. Efficacy of Carraguardr-based microbicides *in vivo* despite variable *in vitro* activity. *PLoS One* 3(9)e3162(2008) 3. Singer, R., Derby, N., Rodriguez, A., et al. The nonnucleoside reverse transcriptase inhibitor MIV-150 in carrageenan gel prevents rectal transmission of simian/human immunodeficiency virus

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

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infection in macaquesJ. Virol.85(11)5504-5512(2011)

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