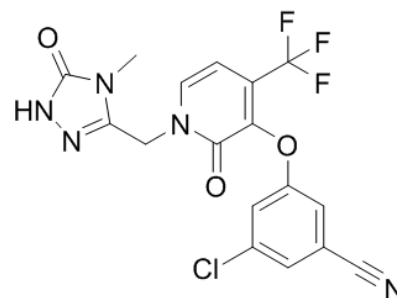


**Product Name** : Doravirine  
**Cat. No.** : PC-45074  
**CAS No.** : 1338225-97-0  
**Molecular Formula** : C<sub>17</sub>H<sub>11</sub>ClF<sub>3</sub>N<sub>5</sub>O<sub>3</sub>  
**Molecular Weight** : 425.7491  
**Target** : HIV  
**Solubility** : DMSO: ≥ 30 mg/mL



## Biological Activity

Doravirine (MK-1439, MK1439) is a novel, highly specific HIV-1 nonnucleoside reverse transcriptase inhibitor (**NNRTI**) with IC<sub>50</sub> of 12, 9.7, and 9.7 nM against WT, K103N, and Y181C reverse transcriptase (RT) mutants, respectively, in a biochemical assay.

Doravirine (MK-1439) shows excellent potency in suppressing the replication of WT virus with EC<sub>95</sub> of 20 nM, as well as K103N, Y181C, and K103N/Y181C mutant viruses with EC<sub>95</sub> of 43, 27, and 55 nM, respectively.

## References

Lai MT, et al. *Antimicrob Agents Chemother.* 2014;58(3):1652-63.

Côté B, et al. *Bioorg Med Chem Lett.* 2014 Feb 1;24(3):917-22.

Feng M, et al. *Antimicrob Agents Chemother.* 2015 Jan;59(1):590-8.

**Caution: Product has not been fully validated for medical applications. Lab Use Only!**

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