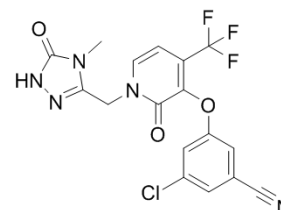


Product Name	: Doravirine
Synonyms	: MK-1439;MK1439
Cat No.	: M11354
CAS Number	: 1338225-97-0
Molecular Formula	: C ₁₇ H ₁₁ ClF ₃ N ₅ O ₃
Formula Weight	: 425.75
Chemical Name	: Benzonitrile, 3-chloro-5-[[1-[(4,5-dihydro-4-methyl-5-oxo-1H-1,2,4-triazol-3-yl)methyl]-1,2-dihydro-2-oxo-4-(trifluoromethyl)-3-pyridinyl]oxy]-
Description	Doravirine (MK-1439, MK1439) is a novel, highly specific HIV-1 nonnucleoside reverse transcriptase inhibitor (NNRTI) with IC₅₀ of 12, 9.7, and 9.7 nM against WT, K103N, and Y181C reverse transcriptase (RT) mutants, respectively, in a biochemical assay; shows excellent potency in suppressing the replication of WT virus with EC₉₅ of 20 nM, as well as K103N, Y181C, and K103N/Y181C mutant viruses with EC₉₅ of 43, 27, and 55 nM, respectively. HIV Infection Phase 3 Clinical
Pathway	: Microbiology/Virology
Target	: HIV
Receptor	: HIV-1
Solubility	: DMSO: ≥ 30 mg/mL
SMILES	: <chem>N#CC1=CC(OC2=C(C(F)(F)F)C=CN(CC(N3C)=NNC3=O)C2=O)=CC(Cl)=C1</chem>
Storage	: (-20°C)
Stability	: ≥ 2 years
Reference	:



1. Lai MT, et al. Antimicrob Agents Chemother. 2014;58(3):1652-63. | 2. Cté B, et al. Bioorg Med Chem Lett. 2014 Feb 1;24(3):917-22. | 3. Feng M, et al. Antimicrob Agents Chemother. 2015 Jan;59(1):590-8.