
Product Data Sheet

Product Name: Delavirdine

Cat. No.: GC35835

Chemical Properties

Cas. No. 136817-59-9

SMILES O=S(NC1=CC=C(NC(C(N2CCN(C3=C(NC(C)C)C=CC=N3)CC2)=O)=C4)C4=C1)(C)=OFormula C₂₂H₂₈N₆O₃S M.Wt 456.56

Solubility Soluble in DMSO Storage Store 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 size: ship with RT, or blue ice upon request.

Structure **Background**

Delavirdine is a non-nucleoside reverse transcriptase inhibitor (NNRTI) that selectively inhibits HIV-1 reverse transcriptase over DNA polymerase α and δ *in vitro* (IC₅₀s = 0.26, 440, and >550 μ M, respectively).¹ It inhibits growth of clinical isolates of HIV-1 (ED₅₀s = <0.005-0.69 μ M). Delavirdine blocks replication of 25 primary HIV-1 isolates, including strains resistant to 3'-azido-2',3'-deoxythymidine (AZT) or 2',3'-dideoxyinosine, with a mean ED₅₀ value of 0.066 μ M. Delavirdine also inhibits growth of *L. infantum* promastigotes (IC₅₀ = 26.1 μ M).² Formulations containing delavirdine have been used in the treatment of HIV.

1. Dueweke, T.J., Poppe, S.M., Romero, D.L., et al. U-90152, a potent inhibitor of human immunodeficiency virus type 1 replication. *Antimicrob. Agents Chemother.* 37(5):1127-1131 (1993)
 2. Costa, S., Machado, M., Cavadas, C., et al. Antileishmanial activity of antiretroviral drugs combined with miltefosine. *Parasitol Res.* 115(10):3881-3887 (2016)

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

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