

Certificate of Analysis

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Product Name: Delavirdine mesylate

Catalog No.: 4149

Batch No.: 1

CAS Number: 147221-93-0

IUPAC Name: 1-[3-[(1-Methylethyl)amino]-2-pyridinyl]-4-[[5-[(methylsulfonyl)amino]-1*H*-indol-2-yl]carbonyl]-piperazine monomethanesulfonate

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₂H₂₈N₆O₃S·CH₃SO₃H

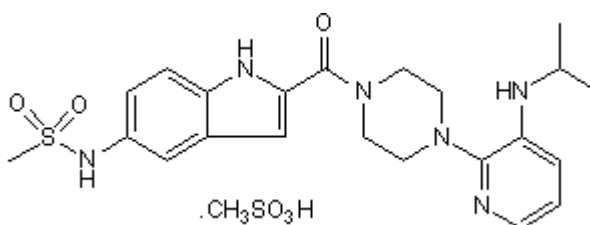
Batch Molecular Weight: 552.67

Physical Appearance: Off-white solid

Solubility: DMSO to 75 mM

Storage: Desiccate at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 100% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

Carbon Hydrogen Nitrogen

	Carbon	Hydrogen	Nitrogen
Theoretical	49.99	5.84	15.21
Found	49.97	5.89	15.13

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Description:

Non-nucleoside reverse transcriptase inhibitor (NNRTI). Selectively inhibits HIV-1 reverse transcriptase (RNA-dependent DNA polymerase) over other cellular polymerases (IC₅₀ values are 0.26, 440 and >550 μM for HIV-1 reverse transcriptase, DNA polymerase α and DNA polymerase δ). Prevents HIV-1 spread in vivo and blocks viral replication in peripheral blood lymphocytes. Orally active.

Physical and Chemical Properties:

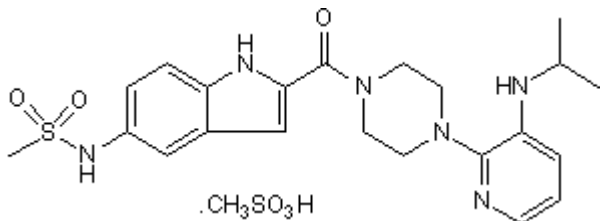
Batch Molecular Formula: C₂₂H₂₈N₆O₃S.CH₃SO₃H

Batch Molecular Weight: 552.67

Physical Appearance: Off-white solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Desiccate at RT

Solubility & Usage Info:

DMSO to 75 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Dueweke et al (1993) U-90152, a potent inhibitor of human immunodeficiency virus type 1 replication. *Antimicrob.Agents Chemother.* **37** 1127. PMID: 7685995.

Pagano and Chong (1995) In vitro inhibition of human immunodeficiency virus type 1 by a combination of delavirdine (U-90152) with protease inhibitor U-75875 or interferon-alpha. *J.Infect.Dis.* **171** 61. PMID: 7528253.

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