

Product Name: Rilpivirine

Catalog No.: 7684

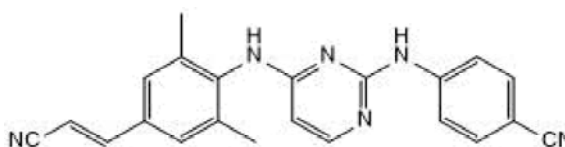
Batch No.: 1

CAS Number: 500287-72-9

IUPAC Name: 4-[[4-[4-[(1E)-2-Cyanoethenyl]-2,6-dimethylphenyl]amino]-2-pyrimidinyl]amino]benzonitrile

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₂H₁₈N₆
Batch Molecular Weight: 366.42
Physical Appearance: Yellow solid
Solubility: DMSO to 50 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.1% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	72.11	4.95	22.94
Found	71.78	4.77	22.72

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

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Description:

Rilpivirine is a potent diarylpyrimidine (DAPY) non-nucleoside reverse transcriptase inhibitor (NNRTI). It has high antiviral activity against wild-type HIV-1 and mutant viruses (EC₅₀ values are 0.4 and 0.1-2.0 nM, respectively in a cell-based assay). This compound is orally bioavailable.

Physical and Chemical Properties:

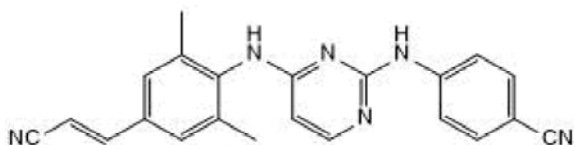
Batch Molecular Formula: C₂₂H₁₈N₆

Batch Molecular Weight: 366.42

Physical Appearance: Yellow solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 50 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:

Baert et al (2009) Development of a long-acting injectable formulation with nanoparticles of rilpivirine (TMC278) for HIV treatment. *Eur.J.Pharm.Biopharm.* **72** 502. PMID: 19328850.

Janssen et al (2005) In search of a novel anti-HIV drug: multidisciplinary coordination in the discovery of 4-[[4-[[4-[(1E)-2-cyanoethenyl]-2,6-dimethylphenyl]amino]-2-pyrimidinyl]amino]benzonitrile (R278474, rilpivirine) *J.Med.Chem.* **48** 1901. PMID: 15771434.

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