



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Lieferung & Zahlungsart

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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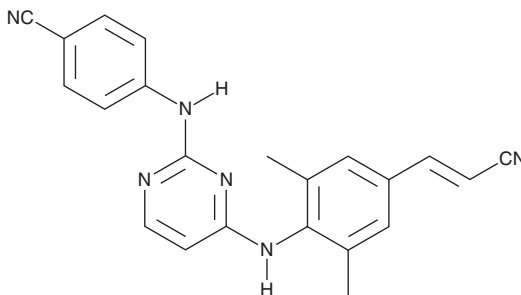
# PRODUCT INFORMATION



## Rilpivirine

Item No. 21559

**CAS Registry No.:** 500287-72-9  
**Formal Name:** 4-[[4-[[4-[(1E)-2-cyanoethenyl]-2,6-dimethylphenyl]amino]-2-pyrimidinyl]amino]-benzonitrile  
**Synonyms:** R278474, TMC278  
**MF:** C<sub>22</sub>H<sub>18</sub>N<sub>6</sub>  
**FW:** 366.4  
**Purity:** ≥98%  
**UV/Vis.:** λ<sub>max</sub>: 306 nm  
**Supplied as:** A crystalline solid  
**Storage:** -20°C  
**Stability:** ≥4 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

### Laboratory Procedures

Rilpivirine is supplied as a crystalline solid. A stock solution may be made by dissolving the rilpivirine in the solvent of choice, which should be purged with an inert gas. Rilpivirine is soluble in organic solvents such as DMSO and dimethyl formamide (DMF). The solubility of rilpivirine in these solvents is approximately 0.2 and 0.3 mg/ml, respectively.

Rilpivirine is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, rilpivirine should first be dissolved in DMF and then diluted with the aqueous buffer of choice. Rilpivirine has a solubility of approximately 0.25 mg/ml in a 1:3 solution of DMF:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

### Description

Rilpivirine is a non-nucleoside reverse transcriptase inhibitor (NNRTI) that inhibits growth of wild-type HIV with an EC<sub>50</sub> value of 0.51 nM.<sup>1</sup> It is active against NNRTI-resistant HIV strains with EC<sub>50</sub> values less than 1 nM for L100I, K103N, V106A, G190A, and G190S mutants *in vitro*. Rilpivirine also reduces growth of greater than 80% of 1,500 NNRTI-resistant clinical isolates (EC<sub>50</sub>s = <10 nM), including strains containing up to eight resistance mutations. *In vivo*, rilpivirine, when used in combination with cabotegravir, lamivudine (Item No. 18514), and abacavir, reduces the plasma viral titer in HIV-1 infected humanized mice.<sup>2</sup>

### References

1. Garvey, L. and Winston, A. Rilpivirine: A novel non-nucleoside reverse transcriptase inhibitor. *Expert Opin. Drug Discov.* **18**(7), 1035-1041 (2009).
2. Arainga, M., Edagwa, B., Mosley, R.L., et al. A mature macrophage is a principal HIV-1 cellular reservoir in humanized mice after treatment with long acting antiretroviral therapy. *Retrovirology* **14**:1, (2017).

#### WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

#### SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the [complete](#) Safety Data Sheet, which has been sent via email to your institution.

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