

# Nevirapine

## Catalog No: tcsc2252



### Available Sizes

**Size:** 10mg

**Size:** 50mg

**Size:** 100mg

**Size:** 200mg



### Specifications

**CAS No:**

129618-40-2

**Formula:**

$C_{15}H_{14}N_4O$

**Pathway:**

Anti-infection;Anti-infection

**Target:**

Reverse Transcriptase;HIV

**Purity / Grade:**

>98%

**Solubility:**

DMSO : 14.29 mg/mL (53.66 mM; Need ultrasonic)

**Alternative Names:**

BI-RG 587;NSC 641530;NVP

**Observed Molecular Weight:**

266.3

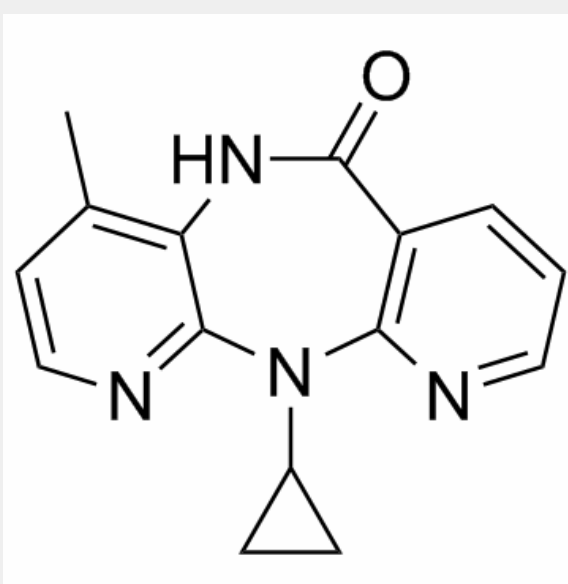
## Product Description

Nevirapine is a non-nucleoside inhibitor of **HIV-1** reverse transcriptase used to treat and prevent HIV/AIDS; with a  $K_i$  of 270  $\mu\text{M}$ .

IC50 & Target:  $K_i$ : 270  $\mu\text{M}$  (HIV-1 reverse transcriptase)<sup>[1]</sup>

**In Vitro:** Nevirapine itself is an inhibitor of only CYP3A4 at concentrations that are well above those of therapeutic relevance ( $K_i$  =270  $\mu\text{M}$ )<sup>[1]</sup>. Nevirapine has been used as a re-differentiation agent to treat cancers in several human cancer models. At all doses (100, 200, 350, 500  $\mu\text{M}$ ) tested, nevirapine significantly inhibits cell proliferation after 48 h treatment. At high dose (500  $\mu\text{M}$ ), nevirapine significantly increases the percentage of apoptotic cells compared with control<sup>[2]</sup>. Nevirapine is a potent and selective inhibitor ( $\text{IC}_{50}$ =10-100 nM) of the replication of a wide variety of HIV-1 strains in several cellular assays<sup>[3]</sup>.

**In Vivo:** Nevirapine is available for use in combination with nucleoside HIV-1 reverse transcriptase inhibitors (e.g., zidovudine, didanosine, etc.). Nevirapine has received FDA approval for use in combination with HIV-1 protease inhibitors (e.g., saquinavir, ritonavir, indinavir, etc.). In humans, nevirapine is eliminated primarily in the urine as glucuronide conjugates of 2-, 3-, 8-, and 12-hydroxynevirapine<sup>[1]</sup>. Nevirapine is completely absorbed in both sexes of mouse, rat, rabbit, monkey, and chimpanzee. Nevirapine is extensively metabolized in both sexes of all animal species studied<sup>[4]</sup>. Nevirapine (9 mg/kg, 18 mg/kg and 36 mg/kg) shows significant reduction in ulcer severity score and ulcer index as compared to the control<sup>[5]</sup>



All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!