

# Indinavir

## Catalog No: tcsc2930



### Available Sizes

**Size:** 10mg

**Size:** 50mg

**Size:** 100mg



### Specifications

**CAS No:**

150378-17-9

**Formula:**

$C_{36}H_{47}N_5O_4$

**Pathway:**

Metabolic Enzyme/Protease;Anti-infection

**Target:**

HIV Protease;HIV

**Purity / Grade:**

>98%

**Solubility:**

10 mM in DMSO

**Alternative Names:**

MK-639;L-735524

**Observed Molecular Weight:**

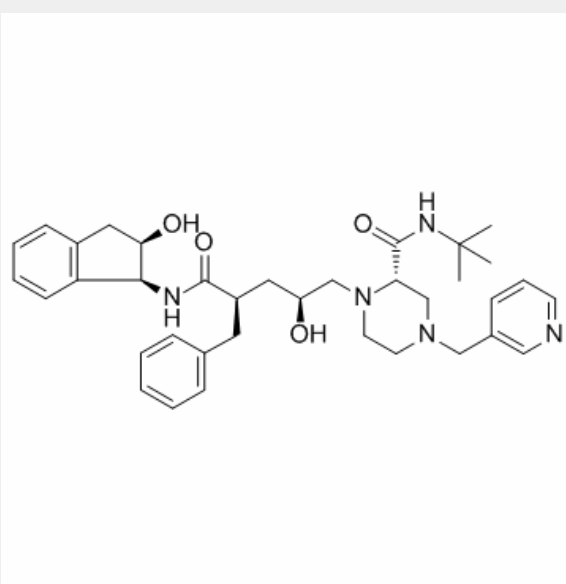
613.79

### Product Description

Indinavir(MK-639; L735524) is a potent and specific HIV protease inhibitor that appears to have good oral bioavailability.

Target: HIV Protease

Indinavir(MK-639) is a protease inhibitor used as a component of highly active antiretroviral therapy (HAART) to treat HIV infection and AIDS. MK-639 appears to have significant dose-related antiviral activity and is well tolerated [1]. Inhibition constants ( $K_i$ ) of the antiviral drug indinavir for the reaction catalyzed by the mutant enzymes were about threefold and 50-fold higher for PR(L24I) and PR(I50V), respectively, relative to PR and PR(G73S). The dimer dissociation constant ( $K_d$ ) was estimated to be approximately 20 nM for both PR(L24I) and PR(I50V), and below 5 nM for PR(G73S) and PR. Crystal structures of the mutants PR(L24I), PR(I50V) and PR(G73S) were determined in complexes with indinavir, or the p2/NC substrate analog at resolutions of 1.10-1.50 Angstrom [2].



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