

# Indinavir (sulfate)

Catalog No: tcsc2931



## Available Sizes

**Size:** 50mg

**Size:** 100mg



## Specifications

**CAS No:**

157810-81-6

**Formula:**

$C_{36}H_{49}N_5O_8S$

**Pathway:**

Metabolic Enzyme/Protease;Anti-infection

**Target:**

HIV Protease;HIV

**Purity / Grade:**

>98%

**Solubility:**

H<sub>2</sub>O : 50 mg/mL (70.24 mM; Need ultrasonic); DMSO : ≥ 100 mg/mL (140.48 mM)

**Alternative Names:**

MK-639 sulfate;L735524 sulfate

**Observed Molecular Weight:**

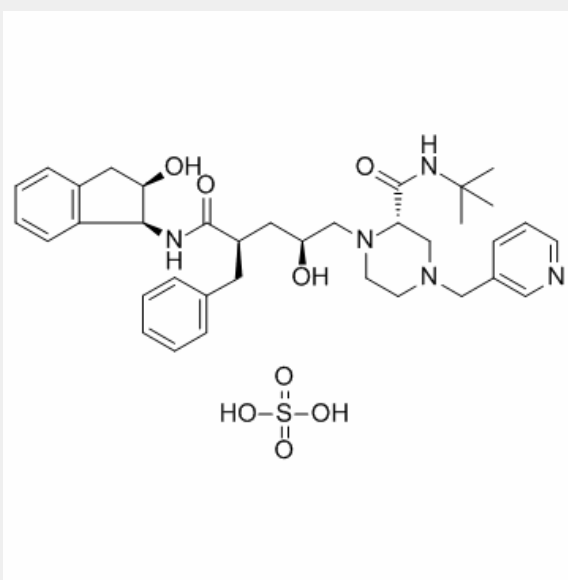
711.87

## Product Description

Indinavir sulfate(MK-639 sulfate; L735524 sulfate ) 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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