



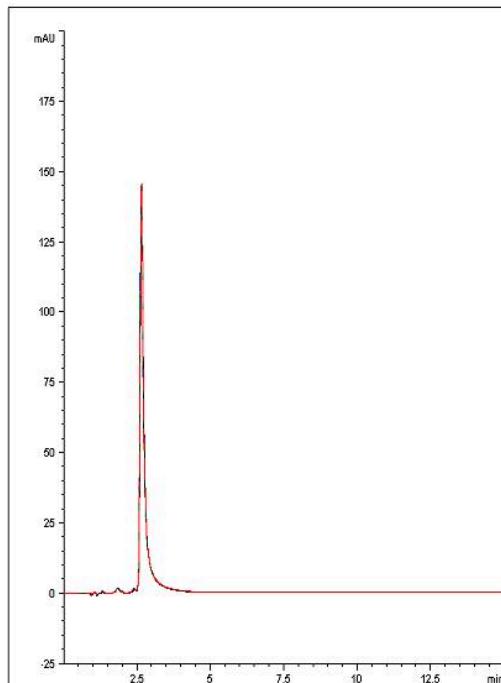
## Ritonavir Analyzed with HPLC - AppNote

### A Reproducible Method for Analysis of a Protease Inhibitor

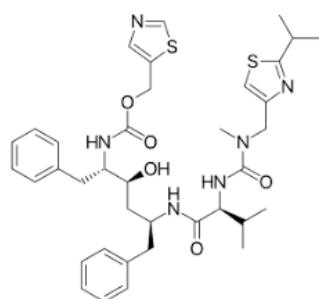
Click [HERE](#) for Column Ordering Information.

A rapid, sensitive, and Reproducible Method has been developed for this Antiretroviral Medication . The data below, (*an overlay of 10 chromatograms* ) illustrates how the compound can be adequately Retained and detected using this straightforward Method.

A Phenyl ring in the Column Stationary Phase provides strategic use of  $\pi$ - $\pi$  Interaction with the Analyte making possible the use of a very simple, Mass Spec-friendly Mobile Phase with Formic Acid as an additive.



### 10 Injections of Ritonavir



### Method Conditions

Column: Cogent Phenyl Hydride™, 4 $\mu$ m, 100 $\text{\AA}$

Catalog No.: [69020-10P](#)

**Dimensions:** 4.6mm x 100mm

**Mobile Phase:** (65:35) Acetonitrile / DI Water with 0.1% Formic Acid

**Injection vol.:** 5 $\mu$ L

**Flow rate:** 1.0mL / minute

**Detection:** UV @ 254nm

**Sample Preparation:** Ritonavir standard prepared as 1.0mg / mL Standard Solution in Mobile Phase

**t<sub>0</sub>:** 1.20 Minutes

**K:** 1.2

---

**Notes :** Ritonavir was initially developed as an independent Antiviral Agent but has been shown to possess advantageous properties in combination regimens with low-dose Ritonavir and other Protease Inhibitors. Currently, it is more commonly used as a booster of other Protease Inhibitors.

---



Printed from the Chrom Resource Center

Copyright 2025, All Rights Apply

**MicroSolv Technology Corporation**

9158 Industrial Blvd. NE, Leland, NC 28451

Tel: (732) 380-8900

Fax: (910) 769-9435

Email: [customers@mtc-usa.com](mailto:customers@mtc-usa.com)

Website: [www.mtc-usa.com](http://www.mtc-usa.com)