

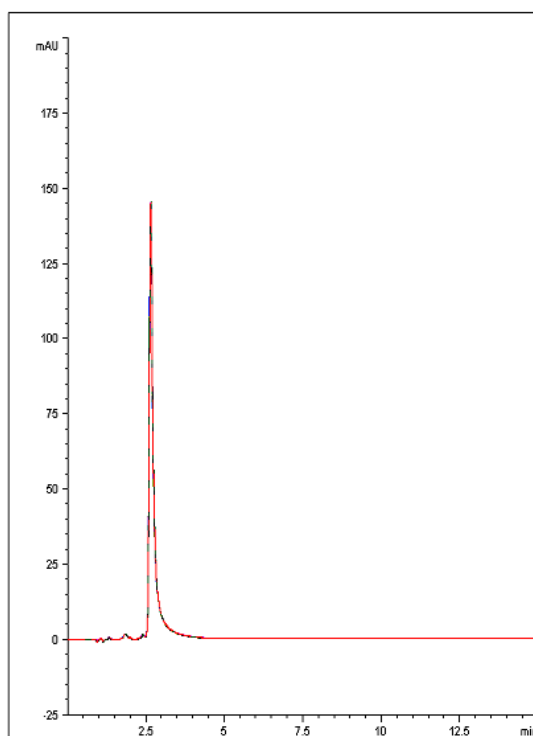
## Ritonavir Analyzed with HPLC - AppNote

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

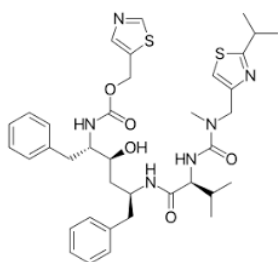
Click [HERE](#) for Column Ordering Information.

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, 100Å

**Catalog No.:** 69020-10P

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# MICROSOLV

**Dimensions:** 4.6mm x 100mm

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

**Injection vol.:** 5µL

**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.*



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