

# Ticagrelor Analyzed with HPLC - AppNote

## A Reproducible Method for Detection of this Blood Clot Preventative

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

A rapid, sensitive, and Reproducible Method has been developed for analysis of Ticagrelor. The data below, (*overlay of 5 chromatograms*) illustrates how the compound can be adequately Retained and detected using a simple Gradient in Reversed Phase HPLC. The Method demonstrates good Peak Shape and run-to-run Precision with RSD values less than 0.3%.

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



### 5 Injections of Ticagrelor Overlay



## Method Conditions

**Column:** Cogent Phenyl Hydride™, 4 $\mu$ m, 100Å

**Catalog No.:** [69020-10P-2](#)

**Dimensions:** 2.1mm x 100mm

**Mobile Phase:**

A: DI Water with 0.1% Formic Acid (v/v)

B: Acetonitrile with 0.1% Formic Acid (v/v)

**Gradient:**

Time (minutes)	%B
0	40
1	40
5	85
6	85
7	40
10	40

**Injection vol.:** 1 $\mu$ L

**Flow rate:** 0.2mL / minute

**Detection:** UV @ 254nm

**Sample Preparation:** 2.0mg / mL Ticagrelor standard solution in Methanol.

*Notes: Ticagrelor is an oral prescription indicated for treatment of acute ischemic stroke, coronary artery disease and acute coronary syndrome.*

