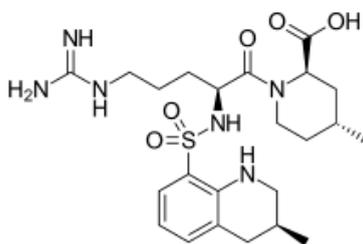
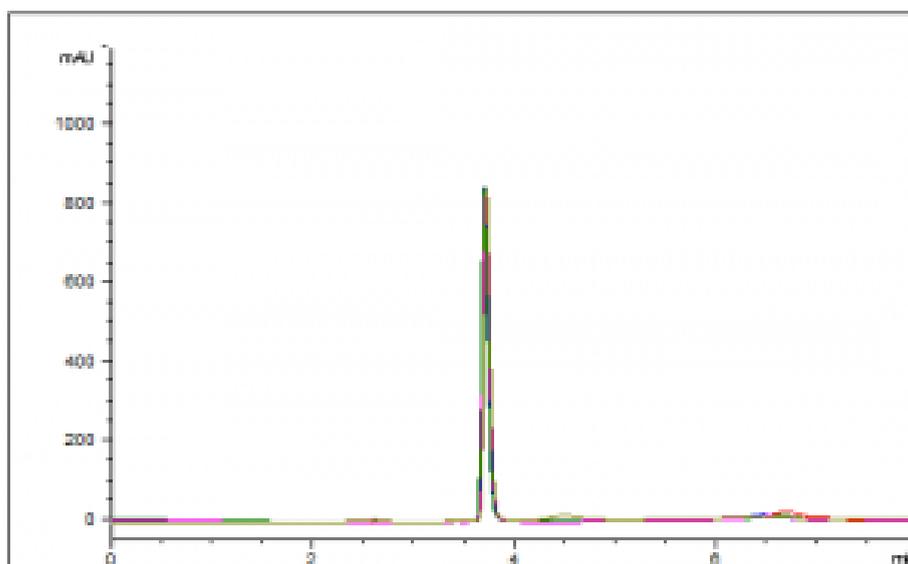


## Argatroban Peptide Analyzed with HPLC - AppNote

### A simple method for this di-peptide

A rapid, sensitive, and reproducible method has been developed for this blood thinner. 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.



**Peak:** Argatroban

### Method Conditions

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

**Catalog No.:** [68539-15P](#)

**Dimensions:** 4.6 x 150 mm

### Mobile Phase:

A: DI water

B: Acetonitrile

## Gradient

Time (minutes)	%B
0	25
1	25
3	50
4	50
5	25
8	25

**Injection vol.:** 2 µL

**Flow rate:** 1.0 mL / minute

**Detection:** UV @ 215 nm

**Sample Preparation:** 0.5 mg / mL in 50:50 acetonitrile / DI water

**%RSD:** <1.0%

**t<sub>0</sub>:** 1.5 minutes

**K':** 1.35

---

**Notes :** Argatroban is a synthetic direct thrombin inhibitor used for the prevention and treatment of thrombosis related to heparin use. It acts as a preventative of the formation of blood clots, which reduces the risk for stroke or other medical conditions.

**Note 2 :** Capacity is determined using the following equation:

- $k = (t_R - t_0) / t_0$
- $t_R$  = Retention time of an analyte peak
- $t_0$  = Retention time of non-retained peak



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)