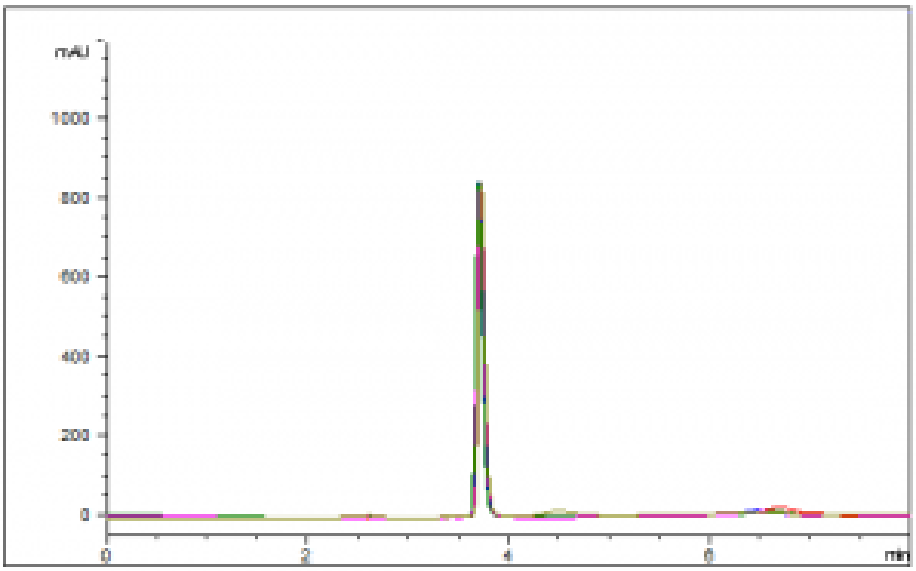
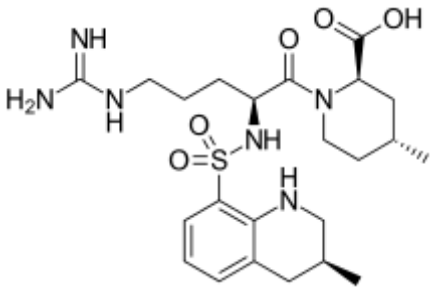
A simple method for this di-peptide

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 *π-π* 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™, 4µm, 100Å

Catalog No.: 68539-15P

Dimensions: 4.6mm x 150mm

Mobile Phase:

A: DI water

B: Acetonitrile

Time *(minutes)*	%B
0	25
1	25

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3	50
4	50
5	25
8	25

Injection vol.: 2µL

Flow rate: 1.0mL / minute

Detection: UV @ 215nm

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

%RSD: <1.0%

t_0: 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: $k = (t_R - t_0)/t_O$

- t_R = *Retention time of an analyte peak*
- t_O = *Retention time of non-retained peak*

COGENT HPLC Columns™

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