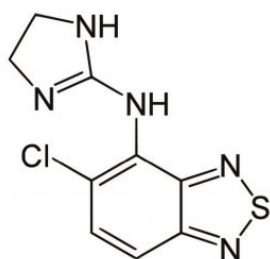
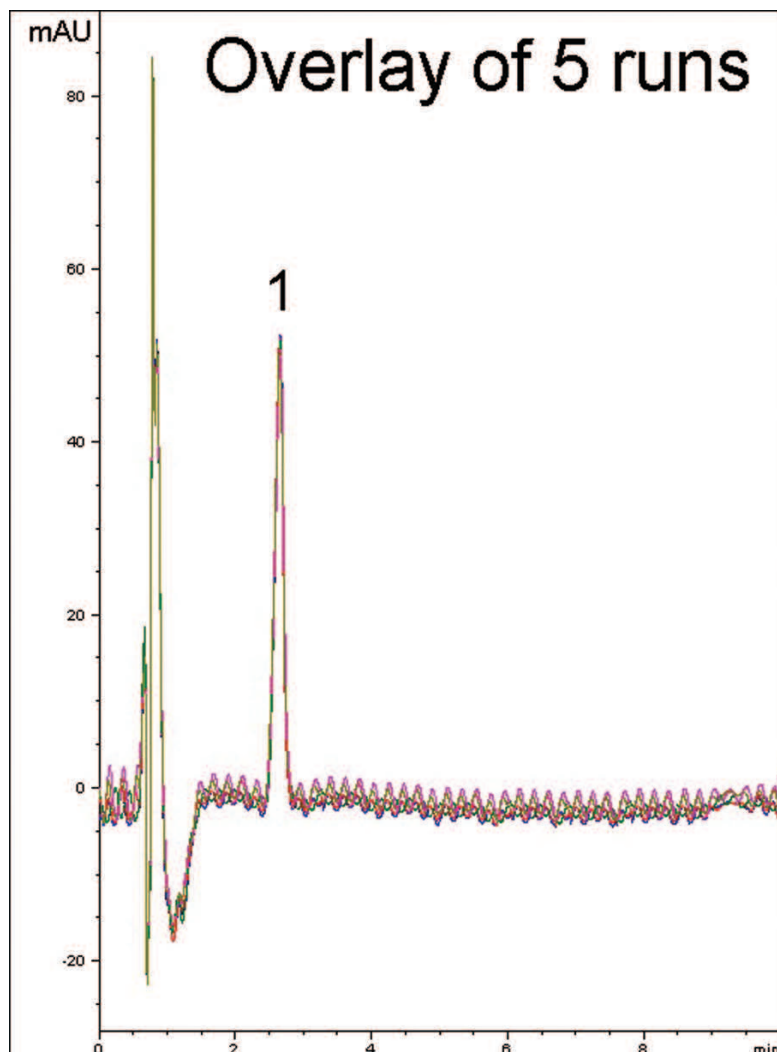


## Excellent Run to Run Precision

Tizanidine has several amine groups which can present problems to chromatographers. Residual silanols on the surface of ordinary Silica-based Columns can electrostatically interact with these groups, causing peak tailing.

The Cogent Amide Column, used in the Application Note is virtually free of residual silanols and therefore a symmetrical peak shape can be obtained. An overlay of five consecutive runs demonstrates the run- to-run precision when using these columns.



Tizanidine

**Peak:**  
Tizanidine

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## Method Conditions

**Column:** Cogent Amide™, 4µm, 100Å

**Catalog No.:** 40036-05P

**Dimensions:** 4.6 x 50mm

**Mobile Phase:**

A: 90% DI Water / 10% Acetonitrile / 0.1% Formic Acid (v/v)

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

**Gradient:**

Time (Minutes)	%B
0	90
2	90
6	40
7	90

**Flow rate:** 1.0 mL/minute

**Detection:** UV @ 230nm

**Injection vol.:** 3µL

**Sample Preparation:**

4 mg strength Tizanidine HCl tablet was ground and weighed in a 10 mL volumetric flask. A portion of 50/50 solvent A/ solvent B diluent was added and the flask was sonicated 10 minutes. It was then diluted to mark and filtered with a 0.45µm Nylon syringe filter (MicroSolv Tech Corp). An aliquot was then diluted 1:10 with a diluent of 10% solvent A / 90%.

**Note:** Tizanidine is a centrally acting  $\alpha_2$ -adrenergic agonist used to treat spasms, cramping, tightness of muscles, and related conditions. It is available under the trade name Zanaflex® as well as generic versions.



**Attachment**

**No 356 Tizanidine Amide.pdf** 0.5 Mb [Download File](#)

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