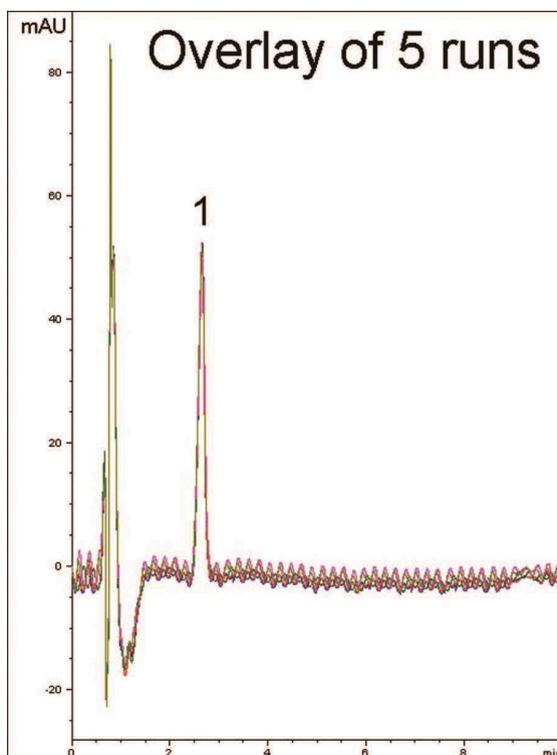


## Tizanidine HCl Tablet Precision by HPLC - AppNote

### 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.



**Peak:** Tizanidine

### Method Conditions

**Column:** Cogent Amide™, 4 µm, 100 Å

**Catalog No.:** [40036-05P](#)

**Dimensions:** 4.6 x 50 mm

**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 @ 230 nm**Injection vol.:** 3 µL

**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 0.45 µm 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](#)

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)