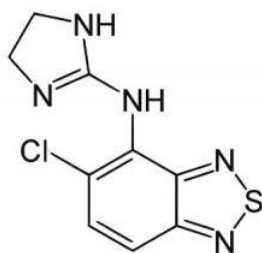
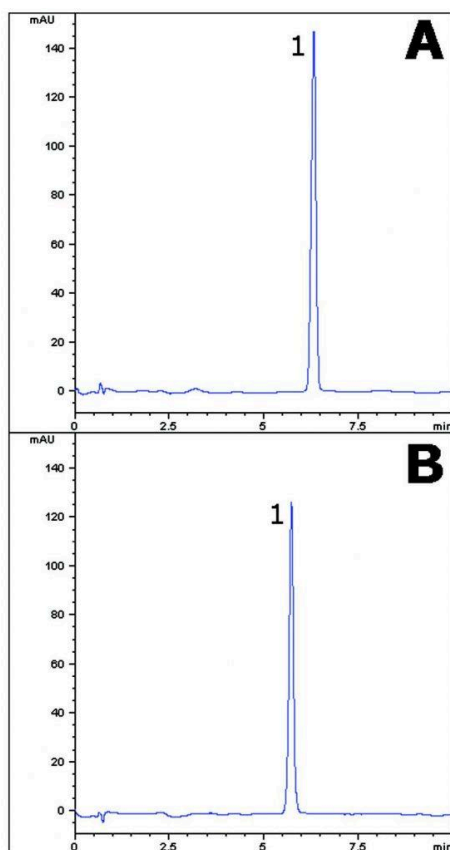


## Tizanidine HCl HPLC Method Transferred to Near UHPLC - AppNote

### Use of near UHPLC column for improved results

This challenging compound has several amine groups and can be problematic to analyze by HPLC. Here a good peak shape is obtained using the Cogent Diamond Hydride 2.0 Column. The efficiency is higher on the 2.2 $\mu$ m phase compared to a standard 4 $\mu$ m Column, leading to increased sensitivity. The method conditions are compatible with LCMS as well.



Tizanidine

Peak:

Tizanidine HCl

## Method Conditions

### Columns:

Fig. A: Cogent Diamond Hydride 2.0™, 120Å

Fig. B: Cogent Diamond Hydride™, 4µm, 100Å

### Catalog Nos.:

Fig. A: [70200-05P-2](#);

Fig. B: [70000-05P-2](#)

### Dimensions:

Fig. A: 2.1 x 50 mm

Fig. B: 2.1 x 50 mm

### Mobile Phase:

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

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

### Gradient:

Time (minutes)	%B
0	95
1	95
6	40
7	95

**Post time:** 3 minutes

**Injection vol.:** 0.2 µL

**Flow rate:** 0.3mL/minutes

**Detection:** UV @ 230 nm

**Sample:** 4mg strength Tizanidine HCl tablet was ground and weighed in a 10mL 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.).

**t<sub>r</sub>:** 0.6 minutes

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**Note:** Tizanidine is a centrally acting A2-Adren- Ergic 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.

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**Attachment** Tizanidine HCl Method Transfer pdf [Download File](#)

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