Terazosin hydrochloride

Product Number  T 4680
Storage Temperature  -0 °C

Molecular Formula:  C_{19}H_{25}N_{5}O_{4}  \cdot  HCl
Molecular Weight:  423.9
CAS Number:  63590-64-7
Melting Point:  278-279 °C

Synonyms:  1-(4-amino-6,7-dimethoxy-2-quinazolinyl)-4-[(tetrahydro-2-furanyl)carbonyl]piperazine hydrochloride; 2-[(4-tetrahydro-2-furoyl)-1-piperazinyl]-4-amino-6,7-dimethoxyquinazoline hydrochloride

Terazosin is an α1-receptor blocker that is structurally very similar to prazosin, differing in that terazosin contains a tetrahydrofuran unit at the amide linkage whereas prazosin contains a furan unit. The duration of action of terazosin is extended relative to that of prazosin.\(^1,2\) A review of the pharmacodynamic and pharmacokinetic properties of terazosin has been published.\(^3\)

Terazosin (2 µM) has been shown to abolish the norepinephrine response that leads to enhanced c-myc-encoded mRNA levels in cultured cardiac myocytes.\(^4\) Terazosin has been used to probe apoptosis (15 µM) and the rate of DNA synthesis (1-100 µM) in cultured human prostate cancer cells.\(^5\) It has also been utilized to modulate the effects of brain epinephrine in the regulation of motor activity and movement in mice.\(^6\)

Assays for the detection of terazosin in plasma by HPLC and by HPLC/ESI-MS have been reported.\(^7-9\)

Precautions and Disclaimer
For Laboratory Use Only. Not for drug, household or other uses.

References
1. The Merck Index, 12th ed., Entry# 9297.