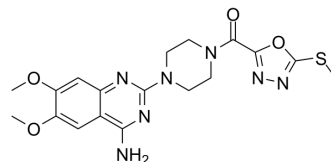


Tiodazosin

Cat. No.:	HY-100255
CAS No.:	66969-81-1
Molecular Formula:	C ₁₈ H ₂₁ N ₇ O ₄ S
Molecular Weight:	431.47
Target:	Adrenergic Receptor
Pathway:	GPCR/G Protein; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Tiodazosin is a potent competitive postsynaptic alpha adrenergic receptor antagonist.
IC₅₀ & Target	alpha adrenergic receptor ^[1]
In Vitro	<p>Tiodazosin is a potent competitive postsynaptic alpha adrenergic receptor antagonist. In the mesenteric artery, Tiodazosin produces a parallel shift to the right in the concentration response curves to norepinephrine. A Schild plot constructed from two concentrations of Tiodazosin results in a pA₂ value of 8.66 and a slope equal to -0.99. Tiodazosin inhibits contraction to norepinephrine in the portal vein and the inhibition results in a nonparallel inhibition of the norepinephrine concentration-response curve with a marked depression of maximal norepinephrine response^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

PROTOCOL

Cell Assay ^[1]	<p>Arteries and portal veins isolated male Wistar rats (150 to 300 g) are used and prepared for in vitro studies. Vessels are incubated with appropriate concentrations of Tiodazosin, prazosin or phentolamine for one hour. Contractile responses to norepinephrine or potassium chloride are then repeated in the presence of Tiodazosin^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>
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REFERENCES

[1]. Cohen ML, et al. In vitro comparison of the pre- and postsynaptic alpha adrenergic receptor blocking properties of prazosin and tiodazosin (BL5111).

Caution: Product has not been fully validated for medical applications. For research use only.

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