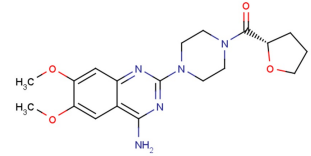


## Data Sheet (Cat.No.T12815)

(S)-Terazosin

### Chemical Properties

CAS No.:	109351-33-9
Formula:	C <sub>19</sub> H <sub>25</sub> N <sub>5</sub> O <sub>4</sub>
Molecular Weight:	387.43
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



### Biological Description

Description	(S)-Terazosin is an active S-enantiomer of Terazosin. (S)-Terazosin is a potent and high-affinity antagonist of $\alpha$ -adrenoceptor ( $\alpha$ 1a, $\alpha$ 1b and $\alpha$ 1d-adrenoceptor with $K_i$ values of 3.91 nM, 0.79 nM and 1.16 nM, respectively).
Targets(IC <sub>50</sub> )	$\alpha$ 1a-adrenoceptor: $k_i$ : 3.91 nM $\alpha$ 1b-adrenoceptor: 0.79 nM ( $k_i$ ) $\alpha$ 1d-adrenoceptor: 1.16 nM ( $k_i$ ) $\alpha$ 2a-adrenoceptor: 729 nM ( $k_i$ ) $\alpha$ 2Ba-adrenoceptor: 3.5 nM ( $k_i$ ) $\alpha$ 2c-adrenoceptor: 46.4 nM ( $k_i$ )
In vitro	(S)-Terazosin and its enantiomers show high and apparently equal affinity for subtypes of $\alpha$ 1-adrenoceptors, and showed potent $\alpha$ 1-adrenoceptors antagonist in isolated tissues, with the enantiomers approximately equipotent to the racemate at each $\alpha$ 1-adrenoceptor subtype. At $\alpha$ 2b sites, (R)-Terazosin binds less potently than either the (S)-Terazosin or racemate.
In vivo	(S)-Terazosin shows $\alpha$ 2B receptor antagonist at rat atrial (pEC <sub>30</sub> of 6.93). (s)-Terazosin shows antagonism of rat vas deferens $\alpha$ 1A and $\alpha$ 2A receptor with pA <sub>2</sub> values of 8.3 and 6.12, respectively.

### Solubility Information

Solubility	DMSO: 150 mg/mL (387.17 mM) ( $< 1$ mg/ml refers to the product slightly soluble or insoluble)
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#### Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.581 mL	12.906 mL	25.811 mL
5 mM	0.516 mL	2.581 mL	5.162 mL
10 mM	0.258 mL	1.291 mL	2.581 mL
50 mM	0.052 mL	0.258 mL	0.516 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. Hancock AA, et al. Actions of terazosin and its enantiomers at subtypes of alpha 1- and alpha 2-adrenoceptors in vitro. J Recept Signal Transduct Res. 1995 Sep-Dec;15(7-8):863-85.

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