

(S)-Terazosin

Chemical Properties

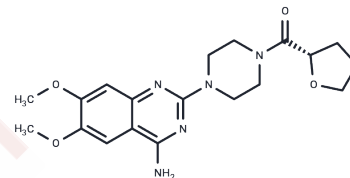
CAS No. : 109351-33-9

Formula: C₁₉H₂₅N₅O₄

Molecular Weight: 387.43

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	(S)-Terazosin is an active S-enantiomer of Terazosin and acts as a potent, high-affinity antagonist of α -adrenoceptors [α 1a, α 1b, and α 1d-adrenoceptors] with K_i values of 3.91 nM, 0.79 nM, and 1.16 nM, respectively.
Targets(IC50)	Adrenergic Receptor
In vitro	(S)-Terazosin and its enantiomers show high and apparently equal affinity for subtypes of α 1-adrenoceptors, and showed potent α 1-adrenoceptors antagonist in isolated tissues, with the enantiomers approximately equipotent to the racemate at each α 1-adrenoceptor subtype. At α 2b sites, (R)-Terazosin binds less potently than either the (S)-Terazosin or racemate.
In vivo	(S)-Terazosin shows α 2B receptor antagonist at rat atrial (pEC ₃₀ of 6.93). (s)-Terazosin shows antagonism of at rat vas deferens α 1A and α 2A receptor with pA ₂ values of 8.3 and 6.12, respectively.

Solubility Information

Solubility	DMSO: 150 mg/mL (387.17 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.5811 mL	12.9056 mL	25.8111 mL
5 mM	0.5162 mL	2.5811 mL	5.1622 mL
10 mM	0.2581 mL	1.2906 mL	2.5811 mL
50 mM	0.0516 mL	0.2581 mL	0.5162 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

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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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481