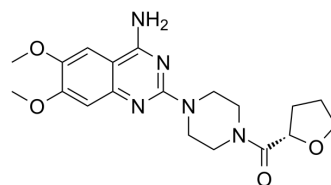


(S)-Terazosin

Cat. No.:	HY-B0371D		
CAS No.:	109351-33-9		
Molecular Formula:	C ₁₉ H ₂₅ N ₅ O ₄		
Molecular Weight:	387.43		
Target:	Adrenergic Receptor		
Pathway:	GPCR/G Protein; Neuronal Signaling		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro

DMSO : 150 mg/mL (387.17 mM; Need ultrasonic)

Concentration	Mass		
	1 mg	5 mg	10 mg
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

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

(S)-Terazosin is an active S-enantiomer of Terazosin. (S)-Terazosin is a potent and high-affinity α -adrenoceptor antagonist with K_i values of 3.91 nM, 0.79 nM and 1.16 nM for α 1a, α 1b and α 1d-adrenoceptor, respectively. (S)-Terazosin also has high-affinity for α 2a, α 2B and α 2c-adrenoceptor with K_i values of 729 nM, 3.5 nM and 46.4 nM, respectively^[1].

IC₅₀ & Target

Ki: 3.91 nM (α 1a-adrenoceptor), 0.79 nM (α 1b-adrenoceptor) and 1.16 nM (α 1d-adrenoceptor); 729 nM (α 2a-adrenoceptor), 3.5 nM (α 2Ba-adrenoceptor) and 46.4 nM (α 2c-adrenoceptor)^[1]

In Vitro

The racemic compound and its enantiomers show high and apparently equal affinity for subtypes of α 1-adrenoceptors with K_i values in the low nanomolar range, and showed potent antagonism of α 1-adrenoceptors 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^[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

In Vivo

(S)-Terazosin shows antagonism of at rat atrial α 2B receptor with a pEC₃₀ of 6.93. (s)-Terazosin shows antagonism of at rat vas deferens α 1A and α 2A receptor with pA₂ values of 8.3 and 6.12, respectively^[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[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.

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

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