

Product Name	: (R)-Terazosin
Synonyms	: —
Cat No.	: M22490
CAS Number	: 109351-34-0
Molecular Formula	: C ₁₉ H ₂₅ N ₅ O ₄
Formula Weight	: 387.43
Chemical Name	: —
Description	(R)-Terazosin is an active R-enantiomer of Terazosin. (R)-Terazosin is a potent antagonist of α 1-adrenoceptor (α 1a, α 1b and α 1d-adrenoceptor with K_i values of 6.51 nM, 1.01 nM and 1.97 nM, respectively). (R)-Terazosin is low affinity for α 2a, α 2B and α 2c-adrenoceptor (K_i of 3.85 μ M, 0.33 μ M and 0.37 μ M, respectively). (R)-Terazosin may prove to be a useful probe in understanding the functional role of subtypes of adrenoceptors in various tissues. (R)-Terazosin shows antagonism of at rat atrial α 2B receptor (pEC ₅₀ : 5.69). (R)-Terazosin shows antagonism of at rat vas deferens α 1A and α 2A receptor (pA ₂ of 7.5 and 5.31, respectively).
Pathway	: Angiogenesis
Target	: Adrenergic Receptor
Receptor	: α 1a-adrenoceptor; α 1b-adrenoceptor ; α 1d-adrenoceptor
Solubility	: DMSO: 75 mg/mL (193.58 mM; Need ultrasonic)
SMILES	: <chem>COc1cc2nc(nc(N)c2cc1OC)N1CCN(CC1)C(=O)[C@H]1CCCCO1</chem>
Storage	: (-20°C)
Stability	: ≥ 2 years
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.