

Doxazosin

Catalog No: tcsc1831



Available Sizes

Size: 100mg

Size: 500mg



Specifications

CAS No:

74191-85-8

Formula:

$C_{23}H_{25}N_5O_5$

Pathway:

GPCR/G Protein

Target:

Adrenergic Receptor

Purity / Grade:

>98%

Solubility:

10 mM in DMSO

Alternative Names:

UK 33274

Observed Molecular Weight:

451.48

Product Description

Doxazosin(UK 33274) is a quinazoline-derivative that selectively antagonizes postsynaptic $\alpha 1$ -adrenergic receptors.

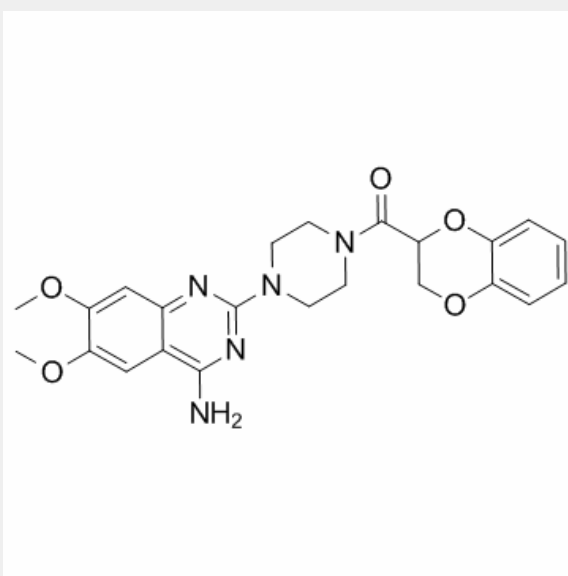
Target: Adrenergic Receptor

Doxazosin is a long-lasting inhibitor of α 1-adrenoceptors that is widely used to treat benign prostatic hyperplasia and lower urinary tract symptoms [1]. doxazosin may have a direct inhibitory effect on cholesterol synthesis independent of the LDL receptor. The inhibition of cholesterol synthesis by doxazosin may cause cells to compensate by upregulating the LDL receptor, thereby increasing the importation of lipoprotein cholesterol and reducing LDL cholesterol in the medium [2]. Doxazosin monotherapy was effective in eight of 12 patients (66.7%), and combined therapy with a beta-blocker was effective in 11 of 12 patients (91.7%). The mean pulse rate remained constant throughout therapy. Adverse reactions were minor and transient and occurred in only three patients. Urinary and plasma catecholamine levels tended to decrease or remained unchanged during doxazosin therapy [3].

Clinical indications: Hypertension; Prostate hyperplasia

FDA Approved Date: February 22, 2005

Toxicity: Symptoms of overdose include hypotension



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