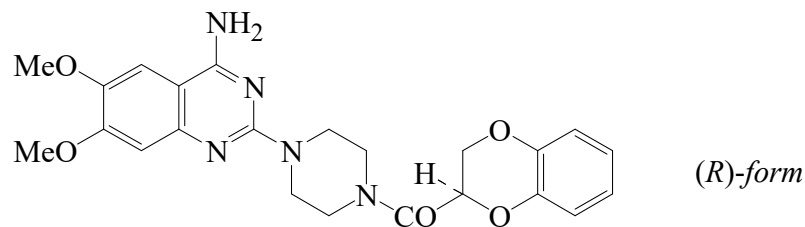




>>>Entry Name: Doxazosin, BAN, INN

Synonym(s): 1-(4-Amino-6,7-dimethoxy-2-quinazolinyl)-4-[(2,3-dihydro-1,4-benzodioxin-2-yl)carbonyl]piperazine, 9Cl. Benur. Cardular. Cardura. Carduran. Proganol. Prostadilat. Supressin. UK 33274



CAS Registry Number: 74191-85-8

Related CAS Registry Numbers(s): 105314-71-4 156154-10-8 156154-38-0

Type of Compound Code(s): XA0150 XA1650

Molecular Formula: C₂₃H₂₅N₅O₅

Molecular Weight: 451.481

Accurate Mass: 451.18557

Percentage Composition: C 61.19%; H 5.58%; N 15.51%; O 17.72%

Biological Use/Importance: α_1 -Adrenoceptor antagonist. Antihypertensive agent. Alters serum lipid profile *via* increase in LDL-receptor activity and other effects. Used in the treatment of benign prostatic hyperplasia

Development Status: Marketed drug. Launched 1988. Worldwide 57th best selling prescription drug (as Cardura) (\$0.80 bn) (Pfizer) (2000, Pharma Business)

Calculated Log P Data: Log P 3.82 (calc)

Other Data: (+)-form is useful for treatment of benign prostatic hyperplasia. α_1 -Adrenergic props. similar for racemate and enantiomers in human prostate. There are claims in patent lit. that (S)-form is responsible for antihypertensive activity and (R)-form for prostatic effects

>>>Variant: (R)-form

CAS Registry Number: 70918-17-1

Molecular Formula: C₂₃H₂₅N₅O₅

Molecular Weight: 451.481

Accurate Mass: 451.18557

Percentage Composition: C 61.19%; H 5.58%; N 15.51%; O 17.72%

>>>Derivative: Hydrochloride

CAS Registry Number: 77173-63-8

Melting Point: Mp 279-280°

Optical Rotation: $[\alpha]_D^{20} -99.3$ (c, 0.4 in DMF)

>>>Variant: (S)-form

CAS Registry Number: 104874-86-4

Molecular Formula: C₂₃H₂₅N₅O₅

Molecular Weight: 451.481

Accurate Mass: 451.18557

Percentage Composition: C 61.19%; H 5.58%; N 15.51%; O 17.72%

>>>Derivative: Hydrochloride

CAS Registry Number: 70918-18-2

Melting Point: Mp 284-286°

Optical Rotation: $[\alpha]_D^{20} +95$ (c, 0.4 in DMF)

>>>Variant: (±)-form

CAS Registry Number: 137888-77-8

Molecular Formula: C₂₃H₂₅N₅O₅

Molecular Weight: 451.481

Accurate Mass: 451.18557

Percentage Composition: C 61.19%; H 5.58%; N 15.51%; O 17.72%

>>>Derivative: Hydrochloride

CAS Registry Number: 70918-01-3

Melting Point: Mp 289-290°