Medroxalol

Cat. No.: HY-101656

CAS No.: 56290-94-9

Molecular Formula: $C_{20}H_{24}N_2O_5$

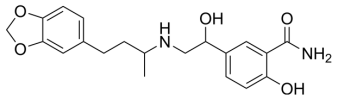
Molecular Weight: 372.41

Target: Adrenergic Receptor

Pathway: GPCR/G Protein; Neuronal Signaling

Storage:

Powder	-20°C	3 years
	4°C	2 years
In solvent	-80°C	6 months
	-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 50 mg/mL (134.26 mM; Need ultrasonic)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	2.6852 mL	13.4261 mL	26.8521 mL
	5 mM	0.5370 mL	2.6852 mL	5.3704 mL
	10 mM	0.2685 mL	1.3426 mL	2.6852 mL

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

BIOLOGICAL ACTIVITY

Description

Medroxalol (RMI81968) is an orally active adrenergic receptor antagonist, blocks α- and β-adrenergic receptors. Medroxalol shows antihypertensive and vasodilating effects[1].

In Vitro

Medroxalol (0.1-10 μM; 20 min) shows α- and β-adrenergic receptor antagonism in isolated rabbit aortic strip[1].

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

Cell Viability Assay[1]

Cell Line:	Isolated rabbit aortic strip
Concentration:	0.1-10 μM
Incubation Time:	20 min
Result:	Showed pA_2 values of 6.09 and 7.73 for α-adrenergic receptors and β-adrenergic receptors, respevtively.

In Vivo

Medroxalol (oral gavage; 12.5-50 mg/kg; once daily; 12 d) treatment shows antihypertensive activity in spontaneously hypertensive rats[1].

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

Animal Model:	Male spontaneously hypertensive rats (SHR)[1]
Dosage:	12.5, 25, or 50 mg/kg
Administration:	Oral gavage; 12.5, 25, or 50 mg/kg; once daily; 12 days
Result:	Produced a dose-related fall in blood pressure.

REFERENCES

[1]. Dage RC, et al. Cardiovascular properties of medroxalol, a new antihypertensive drug. J Cardiovasc Pharmacol. 1981 Mar-Apr;3(2):299-315.

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