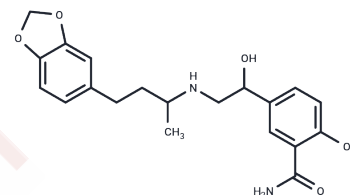


Medroxalol

Chemical Properties

| | |
|-------------------|---|
| CAS No. : | 56290-94-9 |
| Formula: | C ₂₀ H ₂₄ N ₂ O ₅ |
| Molecular Weight: | 372.42 |
| Storage: | Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA. |



Biological Description

| | |
|---------------|--|
| Description | Medroxalol (RMI81968) is an orally active adrenergic receptor antagonist that blocks both α - and β -adrenergic receptors, producing antihypertensive and vasodilating effects [1]. |
| Targets(IC50) | Others, Adrenergic Receptor |
| In vitro | Medroxalol, at concentrations ranging from 0.1-10 μ M over a 20-minute incubation period, exhibits antagonistic activity against both α - and β -adrenergic receptors in isolated rabbit aortic strips, as demonstrated by the Cell Viability Assay. Specifically, the assay results reveal pA ₂ values of 6.09 for α -adrenergic receptors and 7.73 for β -adrenergic receptors, indicating its efficacy in blocking these receptor types [1]. |
| In vivo | Medroxalol treatment, administered via oral gavage at dosages of 12.5 to 50 mg/kg once daily for 12 days, demonstrates antihypertensive activity by inducing a dose-dependent decrease in blood pressure in male spontaneously hypertensive rats (SHR) [1]. |

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|------------|------------|
| 1 mM | 2.6851 mL | 13.4257 mL | 26.8514 mL |
| 5 mM | 0.537 mL | 2.6851 mL | 5.3703 mL |
| 10 mM | 0.2685 mL | 1.3426 mL | 2.6851 mL |
| 50 mM | 0.0537 mL | 0.2685 mL | 0.537 mL |

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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