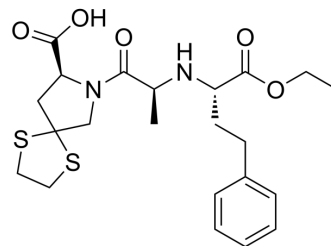


## Spirapril

Cat. No.:	HY-A0230
CAS No.:	83647-97-6
Molecular Formula:	C <sub>22</sub> H <sub>30</sub> N <sub>2</sub> O <sub>5</sub> S <sub>2</sub>
Molecular Weight:	466.61
Target:	Angiotensin-converting Enzyme (ACE)
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	Spirapril is a potent and cross the blood-brain barrier angiotensin converting enzyme (ACE) inhibitor with antihypertensive activity. Spirapril competitively binds to ACE and prevents the conversion of angiotensin I to angiotensin II. Spirapril is an orally active proagent of Spiraprilat and can be used for the research of hypertension, congestive heart failure <sup>[1][2][3]</sup> .
<b>In Vivo</b>	<p>Spirapril (feeding needle; 10 mg/kg; 3 weeks) decreases alcohol intake in TGM123 mice and dose not reduce the alcohol consumption in TLM mice<sup>[2]</sup>.</p> <p>Spirapril shows a 40.2% reduction in ACE activity in brain membrane from treated-mice<sup>[2]</sup>.</p> <p>Spirapril can crosses the blood-brain barrier and suppresses the transgene effect in the experiments<sup>[2]</sup>.</p> <p>Spirapril prevents left ventricular hypertrophy, decreases myocardial damage and promotes angiogenesis in spontaneously hypertensive rats<sup>[3]</sup>.</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

### REFERENCES

- [1]. Noble S, Sorkin EM. Spirapril. A preliminary review of its pharmacology and therapeutic efficacy in the treatment of hypertension. *Drugs*. 1995 May;49(5):750-66.
- [2]. Maul B, et al. Alcohol consumption is controlled by angiotensin II. *FASEB J*. 2001 Jul;15(9):1640-2.
- [3]. Olivetti G, et al. Spirapril prevents left ventricular hypertrophy, decreases myocardial damage and promotes angiogenesis in spontaneously hypertensive rats. *J Cardiovasc Pharmacol*. 1993 Mar;21(3):362-70.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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