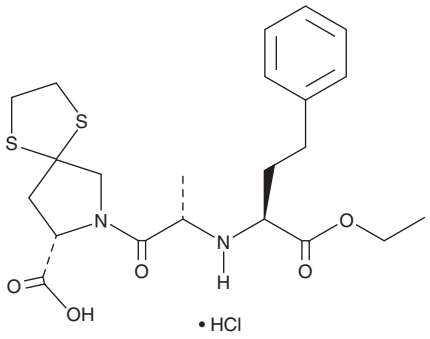
PRODUCT INFORMATION

Spirapril (hydrochloride)

Item No. 39278

CAS Registry No.:	94841-17-5
Formal Name:	7-[(2S)-2-[[(1S)-1-(ethoxycarbonyl)-3-phenylpropyl]amino]-1-oxopropyl]-1,4-dithia-7-azaspiro[4.4]nonane-8-carboxylic acid, monohydrochloride
Synonym:	SCH 33844
MF:	$C_{22}H_{30}N_2O_5S_2$ • HCl
FW:	503.1
Purity:	≥98%
Supplied as:	A solid
Storage:	-20°C
Stability:	≥4 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Spirapril (hydrochloride) is supplied as a solid. A stock solution may be made by dissolving the spirapril (hydrochloride) in the solvent of choice, which should be purged with an inert gas. Spirapril (hydrochloride) is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide. The solubility of spirapril (hydrochloride) in these solvents is approximately 5, 10, and 25 mg/ml, respectively.

Description

Spirapril is an inhibitor of angiotensin-converting enzyme (ACE; IC_{50} = 67 nM) and a prodrug form of spiraprilat.[1,2] It inhibits the angiotensin I-induced pressor response in rats and dogs with half-maximal inhibitory dose (ID_{50}) values of 16 and 262 µg/kg, respectively.[1] Spirapril (5 mg/kg) decreases systolic blood pressure and left ventricular hypertrophy and induces angiogenesis in spontaneously hypertensive rats.[2] Formulations containing spirapril have previously been used in the treatment of hypertension and congestive heart failure.

References

1. Sybertz, E.J., Watkins, R.W., Ahn, H.S., *et al.* Pharmacologic, metabolic, and toxicologic profile of spirapril (SCH 33844), a new angiotensin converting inhibitor. *J. Cardiovasc. Pharmacol.* **10 Suppl 7,** S105-108 (1987).
2. Olivetti, G., Cigola, E., Lagrasta, C., *et al.* Spirapril prevents left ventricular hypertrophy, decreases myocardial damage and promotes angiogenesis in spontaneously hypertensive rats. *J. Cardiovasc. Pharmacol.* **21(3),** 362-370 (1993).

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