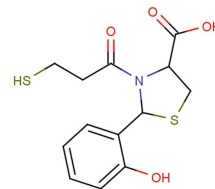


Rentiapril racemate

Chemical Properties

CAS No.:	72679-47-1
Formula:	C ₁₃ H ₁₅ NO ₄ S ₂
Molecular Weight:	313.39
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



Biological Description

Description	Rentiapril is an angiotensin-converting enzyme inhibitor. Rentiapril racemate is the racemate of Rentiapril.
Targets(IC ₅₀)	Angiotensin converting enzyme (ACE): None
In vivo	Histopathologically, renal changes in the 500 and 1000 mg/kg groups consist of proximal tubular degeneration, juxtaglomerular cell hyperplasia, and interstitial cell infiltration. Similar, but mild, changes in proximal tubules are present in the female 125 mg/kg group. Dead animals from the highest dose groups further show gastrointestinal hemorrhagic erosion and/or ulcer, decrease bone marrow erythropoietin, and hepatocytic vacuolar degeneration. There is no pathological alteration in rats from other Rentiapril-treated groups, as well as in controls. These results indicate that the no-effect dose of Rentiapril in rats by three months oral administration is 30 mg/kg in females and 125 mg/kg in males. Another ACE inhibitor, captopril, is used as a reference compound. The dose levels of 0, 30, 125, 500, and 1000 mg/kg are tested in both sexes, in which each experimental group comprised 10 rats. Rentiapril at the highest dose of 1000 mg/kg induces low food consumption and death of some animals with signs of bloody feces and anemia. In males and females receiving 500 and 1000 mg/kg, there is low body weight gain, increases in water intake, urine volume and serum BUN level, and decreases in levels of various erythrocytic parameters. Kidney weight is increased dose-dependently in both sexes [1].

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.191 mL	15.955 mL	31.909 mL
5 mM	0.638 mL	3.191 mL	6.382 mL
10 mM	0.319 mL	1.595 mL	3.191 mL
50 mM	0.064 mL	0.319 mL	0.638 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. Takase K, et al. Toxicity study of the angiotensin converting enzyme inhibitor rentiapril in rats. Arzneimittelforschung. 1995 Jan;45(1):15-8.

Inhibitors · Natural Compounds · Compound Libraries

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