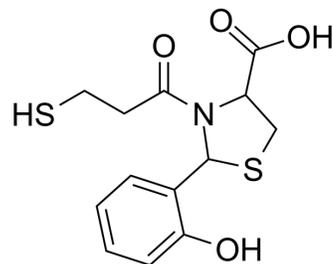


## Rentiapril racemate

<b>Cat. No.:</b>	HY-U00074
<b>CAS No.:</b>	72679-47-1
<b>Molecular Formula:</b>	C <sub>13</sub> H <sub>15</sub> NO <sub>4</sub> S <sub>2</sub>
<b>Molecular Weight:</b>	313.39
<b>Target:</b>	Angiotensin-converting Enzyme (ACE)
<b>Pathway:</b>	Metabolic Enzyme/Protease
<b>Storage:</b>	4°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 100 mg/mL (319.09 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	3.1909 mL	15.9546 mL	31.9091 mL
	5 mM	0.6382 mL	3.1909 mL	6.3818 mL
	10 mM	0.3191 mL	1.5955 mL	3.1909 mL

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

### BIOLOGICAL ACTIVITY

#### Description

Rentiapril racemate (SA-446 racemate) is the racemate of Rentiapril. Rentiapril is an angiotensin converting enzyme (ACE) inhibitor.

#### IC<sub>50</sub> & Target

Angiotensin converting enzyme (ACE)<sup>[1]</sup>

#### In Vivo

A three-months toxicity study of an angiotensin converting enzyme (ACE) inhibitor, Rentiapril (CAS 80830-42-8), is performed in Sprague-Dawley rats by oral administration. 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. Another ACE inhibitor, captopril, is used as a reference compound. Rentiapril at the highest dose of 1000 mg/kg causes 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 are 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. 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 erythropoiesis and hepatocytic vacuolar degeneration. There is no pathological alteration in rats from other Rentiapril-treated groups, as well as in controls. These

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results indicate that the no-effect dose of Rentiapril in rats by three months oral administration is 30 mg/kg in female and 125 mg/kg in male<sup>[1]</sup>.

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

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## REFERENCES

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

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA