Remikiren

®

MedChemExpress

Cat. No.: CAS No.: Molecular Formula:	HY-A0184 126222-34-2 C ₃₃ H ₅₀ N ₄ O ₆ S	
Molecular Weight:	630.84	
Target:	Renin	
Pathway:	Metabolic Enzyme/Protease	Ĩ N N
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.	[–] N

BIOLOGICAL ACTIV			
Description	Remikiren (Ro 42-5892) human plasma renin wi	is an orally active and highly specific renin inhibitor. Remikiren specifically inhibits human reninand th IC ₅₀ values of 0.7 and 0.8 nM, respectively. Remikiren also reduces mean arterial blood pressure in nosets and squirrel monkeys. Remikiren can be used in study of hypertension ^[1] .	
IC ₅₀ & Target	IC50:0.7 nM (human pure renin), 0.8 nM (plasma renin of human) ^[1] .		
In Vitro		h) displays a considerable specificity to inhibit renin ^[1] . Intly confirmed the accuracy of these methods. They are for reference only.	
	Cell Line:	Human pure renin, plasma renin of human, marmoset, squirrel monkey	
	Concentration:	0-10 nM	
	Incubation Time:	1-3 h	
	Result:	Inhibited human pure renin and plasma renin of human, marmoset, squirrel monkey with IC ₅₀ values of 0.7, 0.8, 1.0 and 1.7 nM, respectively.	
In Vivo	sodium-depleted marm Remikiren (3 mg/kg; p.c marmosets ^[1] .	, 10 mg/kg; p.o.; single) reduces mean arterial blood pressure in a dose-dependent manner in nosets and squirrel monkeys ^[1] . o.; single) shows the duration of blood pressure decrease more than 24 h in sodium-depleted ently confirmed the accuracy of these methods. They are for reference only.	
	Animal Model:	Marmosets and squirrel monkeys (sodium-depleted) ^[1] .	
	Dosage:	0.1, 0.3, 1, 3, 10 mg/kg	
	Administration:	Oral administration; single.	
	Result:	Decreased mean arterial pressure (MAP) by 20-25 mm Hg when at 0.1 mg/kg. Reached the maximal decrease (30 mm Hg) of MAP with 1 mg/kg in marmosets.	

Product Data Sheet

	Decreasesd 35 mm Hg blood pressure with 3-10 mg/kg in squirrel monkeys.
Animal Model:	Marmosets (sodium-depleted) ^[1] .
Dosage:	3 mg/kg
Administration:	Oral administration; single.
Result:	Showed MAP fell by 30 mm Hg, which lasting more than 24 h.

REFERENCES

[1]. Fischli W, et al. Ro 42-5892 is a potent orally active renin inhibitor in primates. Hypertension. 1991 Jul;18(1):22-31.

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

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