



Product Information

Product ID P5878

CAS No. 2181-04-6

Chemical Name (17 α)-17-Hydroxy-3-oxopregna-4,6-diene-21- carboxylic acid γ -lactonne free acid potassium salt

Synonym Canrenoic acid Potassium salt, Kanrenol, Soldactone, Venactone

Formula C₂₂H₂₉KO₄

Formula Wt. 396.56

Melting Point

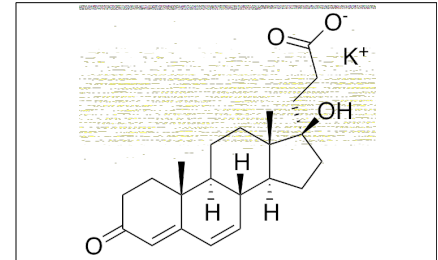
Purity \geq 98%

Solubility Very soluble in water and alcohol. Insoluble in chloroform and ether.

Store Temp Ambient

Ship Temp Ambient

Description Potassium canrenoate is a mineralocorticoid/aldosterone antagonist that exhibits cardioprotective, nephroprotective, antihypertensive, and anti-fibrotic activities. In animal models of cardiac ischemia/reperfusion, potassium canrenoate increases phosphorylation of ERK1/2 and Akt, decreasing infarct size in an adenosine receptor-dependent manner. Potassium canrenoate also improves high salt diet-induced renal dysfunction, reversing the effects of hypofiltration. Additionally, potassium canrenoate displays negative inotropic activity at high doses, decreasing heart rate, blood pressure, and ventricular contraction; it also prolongs ventricular repolarization and the refractory period.



Bulk quantities available upon request

Product ID	Size
P5878	1 g
P5878	5 g
P5878	25 g

References Schmidt K, Tissier R, Ghaleh B, et al. Cardioprotective effects of mineralocorticoid receptor antagonists at reperfusion. *Eur Heart J.* 2010 Jul;31(13):1655-62. PMID: 20028693.

Rugale C, Cordaillat M, Mimran A, et al. Time-course reduction of renal function in rats on high sodium intake: acute reversal by potassium canrenoate. *Clin Exp Pharmacol Physiol.* 2008 Apr;35(4):412-5. PMID: 18307731.

Sugiyama A, Satoh Y, Takahara A, et al. Electropharmacological effects of a spironolactone derivative, potassium canrenoate, assessed in the halothane-anesthetized canine model. *J Pharmacol Sci.* 2004 Dec;96(4):436-43. PMID: 15599107.

Bos R, Mougnot N, Médiani O, et al. Potassium canrenoate, an aldosterone receptor antagonist, reduces isoprenaline-induced cardiac fibrosis in the rat. *J Pharmacol Exp Ther.* 2004 Jun;309(3):1160-6. PMID: 14764658.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.