

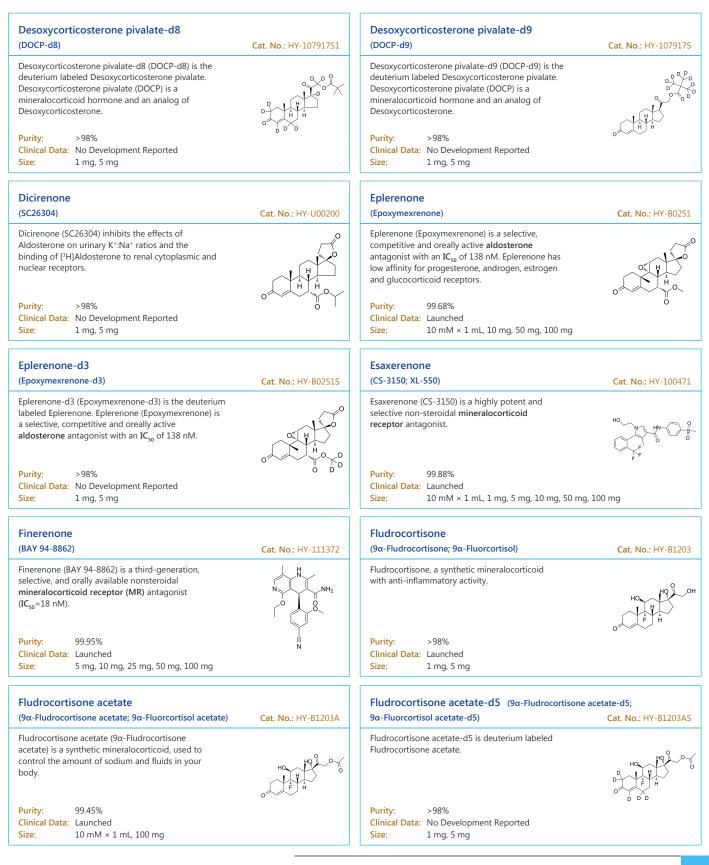
Mineralocorticoid Receptor

Mineralocorticoid receptor (MR) is an intracellular steroid hormone receptor, and a member of the nuclear receptor superfamily, that mediates the physiological action of two important adrenal steroids, aldosterone and cortisol. Mineralocorticoid receptor is closely related to the glucocorticoid receptor (GR), and it can indifferently bind mineralocorticoid and glucocorticoid hormones. Activation of the mineralocorticoid receptor in the distal nephron by its ligand, aldosterone, plays an important role in sodium reabsorption and blood pressure regulation. Besides the regulation of sodium balance and the control of blood pressure, aldosterone-human mineralocorticoid receptor tandem also exerts important regulatory functions on the cardiovascular and central nervous systems.

Mineralocorticoid receptor participates in the regulation of hydroelectrolytic homeostasis in sodium-transporting tight epithelia such as distal nephron, colon, lung, and salivary and sweat glands. In such epithelial target cells, the mineralocorticoid specificity of aldosterone action is given by the enzyme 11β-hydroxysteroid dehydrogenase 2 (11-HSD2), which converts active glucocorticoids into inactive metabolites. Mineralocorticoid receptor is also expressed in nonepithelial tissues such as the heart, some areas of the brain, large blood vessels, and mononuclear leukocytes. The ligand-activated mineralocorticoid receptor is translocated in the nucleus and acts as a transcription factor after its interaction with the consensus glucocorticoid response element (GRE) sequences. Mineralocorticoid receptor could activate or inhibit transcription of target genes whose identification is under intense investigation.

Mineralocorticoid Receptor Inhibitors, Agonists, Antagonists & Modulators

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(Rac)-Finerenone ((Rac)-BAY 94-8862)	Cat. No. : HY-111372A	18-Oxocortisol	Cat. No.: HY-113151
(Rac)-Finerenone ((Rac)-BAY 94-8862) is the racemate of Finerenone. Finerenone is a third-generation, selective, and orally available nonsteroidal mineralocorticoid receptor (MR) antagonist (IC _{s0} =18 nM).		18-Oxocortisol is a derivative of cortisol that is produced by aldosterone synthase (CYP11B2). 18-Oxocortisol is a naturally occurring mineralocorticoid agonist. 18-Oxocortisol is a biomarker in adrenal vein sampling.	
Purity: 99.66% Clinical Data: No Development Reported Size: 10 mM × 1 mL, 5 mg, 10 mg, 25 mg, 50 mg	, 100 mg	Purity: ≥98.0% Clinical Data: No Development Reported Size: 1 mg	
Apararenone (MT-3995)	Cat. No. : HY-109002	AZD9977	Cat. No. : HY-120274
Apararenone (MT-3995) is a novel non-steroidal mineralocorticoid receptor antagonists under development for the treatment of diabetic nephropathies and non-alcoholic steatohepatitis.		AZD9977 is a potent, selective, and orally active mineralocorticoid receptor (MR) modulator. AZD9977 is used for heart failure, and chronic kidney disease research.	
Purity: 98.98% Clinical Data: Phase 2 Size: 10 mM × 1 mL, 5 mg, 10 mg, 25 mg, 50 mg	, 100 mg	Purity:99.85%Clinical Data:No Development ReportedSize:5 mg, 10 mg, 25 mg, 50 mg, 100 mg	U NH O
Baxdrostat	Cat. No.: HY-132809	Canrenoate potassium (Aldadiene potassium; SC-14266)	Cat. No.: HY-B1582A
Baxdrostat is a aldosterone synthase inhibitor. Purity: >98% Clinical Data: No Development Reported Size: 5 mg, 10 mg, 25 mg, 50 mg, 100 mg		Canrenoate (Aldadiene) potassium, a prodrug that releases canrenone, is a potent, competitive mineralocorticoid receptor (aldosterone receptor) antagonist. Potassium canrenoate, as a diuretic, is used for the research of hypertension. Purity: 99.37% Clinical Data: Launched Size: 10 mM × 1 mL, 500 mg	
Canrenone (Aldadiene; SC9376)	Cat. No. : HY-B1438	Canrenone-d4 (Aldadiene-d4; SC9376-d4)	Cat. No.: HY-B1438S1
Canrenone (Aldadiene) is an aldosterone antagonist extensively used as a diuretic agent.		Canrenone-d4 is deuterium labeled Canrenone. Canrenone (Aldadiene) is an aldosterone antagonist extensively used as a diuretic agent.	
Purity:99.54%Clinical Data:LaunchedSize:10 mM × 1 mL, 50 mg	0, , ,	Purity:>98%Clinical Data:No Development ReportedSize:1 mg, 5 mg	0
Canrenone-d6 (Aldadiene-d6; SC9376-d6)	Cat. No.: HY-B1438S	Deoxycorticosterone acetate (11-Deoxycorticost DOC acetate; Cortexone acetate)	erone acetate; Cat. No.: HY-B1472
Canrenone-d6 (Aldadiene-d6) is the deuterium labeled Canrenone. Canrenone (Aldadiene) is an aldosterone antagonist extensively used as a diuretic agent.		Deoxycorticosterone acetate is a steroid hormone produced by the adrenal gland that possesses mineralocorticoid activity and acts as a precursor to aldosterone.	
Purity: >98% Clinical Data: No Development Reported Size: 1 mg, 5 mg	0, Å , D D	Purity: 99.57% Clinical Data: Launched Size: 10 mM × 1 mL, 100 mg	04



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