



**Recent References (2016-2020) on the Administration of Aldosterone
Using ALZET® Osmotic Pumps**

Q7288: S. L. a. Z. G. Ming C. Gong. A New Mouse Model of Aortic Aneurysm Induced by Deoxycorticosterone Acetate or Aldosterone in the Presence of High Salt. *IntechOpen* 2019;1-12

Agents: Aldosterone **Vehicle:** DMSO; **Route:** SC; **Species:** Mice; **Pump:** 2004; **Duration:** 4 weeks;

ALZET Comments: Dose (200, 500, 700 ug/kg/day); 50% DMSO used; animal info (10-month-old C57BL/6 male mice); cardiovascular;

Q7574: G. Z. Liu, *et al.* Aldosterone stimulation mediates cardiac metabolism remodeling via Sirt1/AMPK signaling in canine model. *Naunyn Schmiedebergs Arch Pharmacol* 2019;392(7):851-863

Agents: Aldosterone **Vehicle:** Saline; **Route:** SC; **Species:** Dog (Beagle); **Pump:** 2ML4; **Duration:** 4 weeks;

ALZET Comments: Dose (12 ug/kg/day); Controls received mp w/ vehicle; animal info (male adult purebred beagle dogs (8.0–8.5 kg)); cardiovascular;

Q8222: M. Khan, *et al.* Aldosterone impairs coronary adenosine-mediated vasodilation via reduced functional expression of Ca(2+)-activated K(+) channels. *Am J Physiol Heart Circ Physiol* 2019;317(2):H357-H363

Agents: Aldosterone **Vehicle:** Ethyl Alcohol; **Route:** SC; **Species:** Mice; **Pump:** 1004; **Duration:** 4 weeks;

ALZET Comments: Dose (250 ug/kg/day); 95% EtOH used; Controls received mp w/ vehicle; animal info (Male C57BL/6J mice, 12 wk of age); Blood pressure measured via tail- cuff plethysmography; 125 +/- 7 mmHg - 126 +/- 5 mmHg; Aldosterone aka aldo; cardiovascular;

Q7289: R. Goto, *et al.* Mineralocorticoid Receptor May Regulate Glucose Homeostasis through the Induction of Interleukin-6 and Glucagon-Like peptide-1 in Pancreatic Islets. *J Clin Med* 2019;8(5):

Agents: Aldosterone, d- **Vehicle:** Ethanol; Propylene Glycol; Distilled Water; **Route:** Not Stated; **Species:** Rat; **Pump:** 2004; **Duration:** 4 weeks;

ALZET Comments: Dose (2.9 mg/mL); 9% ethanol, 87% propylene glycol, 4% dH2O used; Controls received mp w/ vehicle; animal info (Male Sprague-Dawley rats); diabetes;

Q7445: Y. Chen, *et al.* Molecular and Cellular Effect of Angiotensin 1-7 on Hypertensive Kidney Disease. *American Journal of Hypertension* 2019;32(5):460-467

Agents: Angiotensin (1-7), Aldosterone **Vehicle:** Not Stated; **Route:** SC; **Species:** Rat; **Pump:** 2004; **Duration:** 4 weeks;

ALZET Comments: Dose (1 mg/kg/day); animal info (Sprague-Dawley,); ALDO aka aldosterone; cardiovascular;

Q7274: K. Buzgoova, *et al.* Brain derived neurotrophic factor expression and DNA methylation in response to subchronic valproic acid and/or aldosterone treatment. *Croatian Medical Journal* 2019;60(2):71-77

Agents: Aldosterone **Vehicle:** Ethanol; **Route:** SC; **Species:** Rat; **Pump:** 2002; **Duration:** 14 Days;

ALZET Comments: Dose (2 µg/100g body weight/d); 1% Ethanol used; Controls received mp w/ vehicle; animal info (Sprague-Dawley rats 250-275 g);

Q8175: K. Buzgoova, *et al.* Antidepressant effects of valproic acid in an animal model of depression. *European Pharmaceutical Journal* 2019;66(2):1-3

Agents: Aldosterone, d- **Vehicle:** Not stated; **Route:** SC; **Species:** Rat; **Pump:** 2002; **Duration:** 14 days;

ALZET Comments: animal info (Forty male adult Sprague-Dawley rats); D-aldosterone aka aldosterone; dependence;

Q5862: M. J. Butler, *et al.* Aldosterone induces albuminuria via matrix metalloproteinase-dependent damage of the endothelial glycocalyx. *Kidney Int* 2019;95(1):94-107

Agents: Aldosterone **Vehicle:** Saline; **Route:** SC; **Species:** Mice; **Pump:** Not Stated; **Duration:** 28 days;

ALZET Comments: Dose (0.6 µg/kg/d); 1% saline used; Controls received mp w/ vehicle; animal info (adult male DBA2J mice);



Q7309: Y. Takasago, *et al.* Elevated plasma aldosterone levels are associated with a reduction in retinal ganglion cell survival. *J Renin Angiotensin Aldosterone Syst* 2018;19(3):1470320318795001

Agents: Aldosterone **Vehicle:** DMSO; **Route:** SC; **Species:** Rat; **Pump:** 2006; **Duration:** 6 weeks;

ALZET Comments: Dose (40, 80 or 160µg/kg/day); <5% DMSO used; Controls received mp w/ vehicle; animal info (Male, Sprague–Dawley, 200 to 250g); Resultant plasma level (40 µg/kg/day = 238 ± 17 pg/ml, 403 ± 38 pg/ml); (80 µg/kg/day = 461 ± 30 pg/ml); (160µg/kg/day = 1750 ± 151 pg/ml); cancer (glaucoma);

Q7056: S. B. Poulsen, *et al.* RNA sequencing of kidney distal tubule cells reveals multiple mediators of chronic aldosterone action. *Physiol Genomics* 2018;50(5):343-354

Agents: Aldosterone **Vehicle:** Saline; DMSO; **Route:** SC; **Species:** Mice; **Pump:** 1007D; **Duration:** 6 days;

ALZET Comments: Dose (100 ug/kg/hr); animal info (8-13 week old);

Q8153: E. J. Park, *et al.* miR-34c-5p and CaMKII are involved in aldosterone-induced fibrosis in kidney collecting duct cells. *Am J Physiol Renal Physiol* 2018;314(3):F329-F342

Agents: Aldosterone **Vehicle:** Saline; **Route:** SC; **Species:** Mice; **Pump:** 1002; **Duration:** 10 days;

ALZET Comments: Dose (250 ug/kg/day); Controls received mp w/ vehicle; animal info (C57BL/6, 20-22 g); dependence;

Q7062: A. Ono, *et al.* Gene expression changes in the retina after systemic administration of aldosterone. *Jpn J Ophthalmol* 2018;62(4):499-507

Agents: Aldosterone **Vehicle:** Not Stated; **Route:** SC; **Species:** Rat; **Pump:** 2006; **Duration:** 7 days;

ALZET Comments: Dose (80 ug/kg/day); animal info (male Sprague-Dawley rats weighing 200-250g); Therapeutic indication (Retinal ganglion cell loss);

Q8114: V. Marzolla, *et al.* Induction of Atherosclerotic Plaques Through Activation of Mineralocorticoid Receptors in Apolipoprotein E-deficient Mice. *J Vis Exp* 2018;139):

Agents: Aldosterone **Vehicle:** Saline; **Route:** SC; **Species:** Mice; **Pump:** Not stated; **Duration:** 28 days;

ALZET Comments: Dose (240 ug/kg/day); 0.9% Saline used; Controls received mp w/ vehicle; cardiovascular;

Q7771: W. H. Liao, *et al.* Aldosterone deficiency in mice burdens respiration and accentuates diet-induced hyperinsulinemia and obesity. *JCI Insight* 2018;3(14):

Agents: aldosterone **Vehicle:** CSF, artificial; **Route:** CSF/CNS (lateral ventricle); **Species:** Mice; **Pump:** 2004; **Duration:** 4 weeks;

ALZET Comments: Dose (25 ng/h); Controls received mp w/ vehicle; animal info (10-12 weeks, 129SvEv or ASKO); ALZET brain infusion kit 2 used; Brain coordinates (anterior-posterior -0.220, medial-lateral +1.000, dorsal-ventral -3.000); Cannula placement verified via stereotaxic frame and at sacrifice; cyanoacrylate adhesive; replacement therapy (aldosterone); Therapeutic indication (aldosterone attenuated high fat diet-induced hyperinsulinemia through increased body energetic efficiency.);

Q7184: M. Hulsmans, *et al.* Cardiac macrophages promote diastolic dysfunction. *J Exp Med* 2018;215(2):423-440

Agents: Aldosterone, D- **Vehicle:** Not Stated; **Route:** Not Stated; **Species:** Mice; **Pump:** Not Stated; **Duration:** 30 days;

ALZET Comments: Dose (0.30 µg/h); animal info (C57BL/6 mice, 18-30 week old);

Q7754: D. Hirohama, *et al.* Aldosterone Is Essential for Angiotensin II-Induced Upregulation of Pendrin. *J Am Soc Nephrol* 2018;29(1):57-68

Agents: Angiotensin II; Aldosterone; Dexamethasone **Vehicle:** Not Stated; **Route:** SC; **Species:** Mice; **Pump:** 2002; **Duration:** 7 days;

ALZET Comments: Dose ((AngII 400 µg/kg/day), (aldosterone 0.1µg/day), (dexamethasone 12 µg/kg/day)); Controls received mp w/ vehicle; animal info (8-14 weeks, male, C57BL/6J or PDS-/-); replacement therapy (aldosterone, dexamethasone; adrenalectomy); Vehicle used but identity not stated. All minipumps contained dexamethasone for glucocorticoid replacement;



Q7749: S. Gasparini, *et al.* Aldosterone infusion into the 4th ventricle produces sodium appetite with baroreflex attenuation independent of renal or blood pressure changes. *Brain Research* 2018;1698(70-80)

Agents: aldosterone **Vehicle:** Saline, ethanol buffered; **Route:** CSF/CNS (fourth ventricle); **Species:** Rat; **Pump:** 2001; **Duration:** 6 days; 14 days;

ALZET Comments: Dose (100 ng/ μ L); 1% ethanol in 0.9% NaCl used; Controls received mp w/ vehicle; animal info (male, Holtzman, 280-320g); post op. care (IM injection of penicillin (30,000 IU) and SC injection of Ketoflex (ketoprofen 1%, 0.03 ml/rat)); Brain coordinates (12.9 mm caudal to bregma in the midline, 4.8 mm below the surface of the skull. The tips of cannulas were positioned 2 mm above the 4th V.);

Q7173: K. Bamberg, *et al.* Preclinical pharmacology of AZD9977: A novel mineralocorticoid receptor modulator separating organ protection from effects on electrolyte excretion. *PLoS One* 2018;13(2):e0193380

Agents: Aldosterone **Vehicle:** DMSO; **Route:** SC; **Species:** SC; **Pump:** 2ML4; **Duration:** 4 Weeks;

ALZET Comments: Dose (0.75 ug/hr); 0.15% DMSO/sterile water used; animal info (Male Sprague-Dawley rats 240 to 280 g); post op. care (redness cleaned with betadine and a topical antibiotic applied);

Q5717: L. Yang, *et al.* SGK1-dependent ENaC processing and trafficking in mice with high dietary K intake and elevated aldosterone. *American Journal of Physiology Renal Physiology* 2017;312(1):F65-F76

Agents: Aldosterone **Vehicle:** Not Stated; **Route:** Not Stated; **Species:** Mice; **Pump:** 2001; **Duration:** 7 days;

ALZET Comments: animal info (Sgk1 KO); Dose (12 ug/day);

Q5921: B. M. Wynne, *et al.* Aldosterone Modulates the Association between NCC and ENaC. *Sci Rep* 2017;7(1):4149

Agents: Aldosterone **Vehicle:** DMSO; saline; **Route:** SC; **Species:** Mice; **Pump:** Not Stated; **Duration:** 10 days;

ALZET Comments: Controls received mp w/ vehicle; 25% DMSO used; Dose (4 ug/Kg/day);

Q5970: J. M. Resch, *et al.* Aldosterone-Sensing Neurons in the NTS Exhibit State-Dependent Pacemaker Activity and Drive Sodium Appetite via Synergy with Angiotensin II Signaling. *Neuron* 2017;96(1):190-206 e7

Agents: Aldosterone **Vehicle:** Ethanol; **Route:** IP; **Species:** Mice; **Pump:** 1002; **Duration:** 8-12 days;

ALZET Comments: Controls received mp w/ vehicle; animal info (4-5 week old); functionality of mp verified by plasma aldosterone levels; 5% ethanol used; Dose (900 ug/mL);

Q5883: N. Queisser, *et al.* Aldosterone activates the oncogenic signals ERK1/2 and STAT3 via redox-regulated mechanisms. *Mol Carcinog* 2017;56(8):1868-1883

Agents: Aldosterone **Vehicle:** Not Stated; **Route:** Not Stated; **Species:** Rat; **Pump:** 2004; **Duration:** 4 hours;

ALZET Comments: Controls received mp w/ PBS; animal info (male, Sprague Dawley, 8 weeks old); cardiovascular; Bp measured using tail cuff; Dose (0.75 ug/kg/hr);

Q6339: S. B. Poulsen, *et al.* Long-term aldosterone administration increases renal Na(+)-Cl(-) cotransporter abundance in late distal convoluted tubule. *American Journal of Physiology Renal Physiology* 2017;313(3):F756-F766

Agents: Aldosterone **Vehicle:** DMSO; Saline; **Route:** SC; **Species:** Mice; **Pump:** 1007D; **Duration:** 6 days;

ALZET Comments: Dose (100 ug/kg/24 h); 5% DMSO used; Controls received mp w/ vehicle; animal info (Male mice C57BL/6JBomTac);

Q6449: Y. Kato, *et al.* Natriuretic peptide receptor guanylyl cyclase-A pathway counteracts glomerular injury evoked by aldosterone through p38 mitogen-activated protein kinase inhibition. *Sci Rep* 2017;7(46624)

Agents: Aldosterone **Vehicle:** Not Stated; **Route:** SC; **Species:** Mice (knockout); **Pump:** 2004; **Duration:** Not Stated;

ALZET Comments: Dose (0.2 μ g/kg body weight per minute); Controls received mp w/ vehicle; animal info (Male systemic GC-A KO mice and wild-type); replacement therapy (left uninephrectomy);

Q6469: Y. Guo, *et al.* MicroRNA-30e targets BNIP3L to protect against aldosterone-induced podocyte apoptosis and mitochondrial dysfunction. *American Journal of Physiology Renal Physiology* 2017;312(4):F589-F598

Agents: Aldosterone **Vehicle:** Not Stated; **Route:** SC; **Species:** Mice; **Pump:** Not Stated; **Duration:** 7 days;



ALZET Comments: Dose (0.5 mg/h); Controls received mp w/ vehicle; animal info (8-wk-old C57BL/6J male mice weighing 20–25 g);

Q6419: J. P. Ball, *et al.* Role and Regulation of MicroRNAs in Aldosterone-Mediated Cardiac Injury and Dysfunction in Male Rats. *Endocrinology* 2017;158(6):1859-1874

Agents: Aldosterone **Vehicle:** PEG 300; **Route:** SC; **Species:** Rat; **Pump:** 2004; **Duration:** 8 weeks;

ALZET Comments: Dose (0.75 mg/h); Controls received mp w/ vehicle; animal info (Eight-week old male Sprague–Dawley rats); replacement therapy (uninephrectomy); cardiovascular;

Q6421: M. Bai, *et al.* NLRP3 inflammasome activation contributes to aldosterone-induced podocyte injury. *American Journal of Physiology Renal Physiology* 2017;312(4):F556-F564

Agents: Aldosterone **Vehicle:** Not Stated; **Route:** SC; **Species:** Mice; **Pump:** Not Stated; **Duration:** 2 weeks;

ALZET Comments: Controls received mp w/ vehicle; animal info (8-wk-old male mice weighing 25–30 g,);

Q5084: B. Wang, *et al.* Berberine Improved Aldo-Induced Podocyte Injury via Inhibiting Oxidative Stress and Endoplasmic Reticulum Stress Pathways both In Vivo and In Vitro. *Cellular Physiology and Biochemistry* 2016;39(1):217-28

Agents: Aldosterone **Vehicle:** Not Stated; **Route:** SC; **Species:** Rat; **Pump:** 2004; **Duration:** 4 weeks;

ALZET Comments: Controls received no mp; animal info (male, Sprague Dawley, 5-6 weeks old, 260-290g); functionality of mp verified by measuring urinary aldosterone levels (pg 220); cardiovascular; bp measured using tail cuff; Dose (0.75 ug/hr);

Q5471: M. Valero-Munoz, *et al.* Dual Endothelin-A/Endothelin-B Receptor Blockade and Cardiac Remodeling in Heart Failure With Preserved Ejection Fraction. *Circulation: Heart Failure* 2016;9(11):

Agents: Aldosterone, D- **Vehicle:** Not Stated; **Route:** Not Stated; **Species:** Mice; **Pump:** Not Stated; **Duration:** 4 weeks;

ALZET Comments: Controls received mp w/ saline; animal info (Male, C57BL6J, 8 weeks old, 20-25g); no stress (see pg. 3); replacement therapy (uniphrectomy); cardiovascular; Dose (30 ug/h);

Q4889: A. S. Terker, *et al.* Unique chloride-sensing properties of WNK4 permit the distal nephron to modulate potassium homeostasis. *Kidney Int* 2016;89(127-134

Agents: Aldosterone **Vehicle:** Saline; **Route:** SC; **Species:** Mice; **Pump:** 1002; **Duration:** 7 days;

ALZET Comments: Controls received mp w/ vehicle; animal info (C57BL6 WT or BALB/c, 12-24 weeks old); 240 ug/kr/day

Q6510: A. S. Terker, *et al.* Direct and Indirect Mineralocorticoid Effects Determine Distal Salt Transport. *J Am Soc Nephrol* 2016;27(8):2436-45

Agents: Aldosterone **Vehicle:** Saline; **Route:** Not Stated; **Species:** Mice (knockout); **Pump:** Not Stated; **Duration:** 7 days;

ALZET Comments: Dose (240 ug/kg/day); animal info (Kidney--specific MR knockout mice, 12-24 weeks old);

Q5686: A. Tanino, *et al.* Interleukin-18 deficiency protects against renal interstitial fibrosis in aldosterone/salt-treated mice. *Clinical Science* 2016;130(19):1727-39

Agents: Aldosterone **Vehicle:** Water; ethanol; propylene glycol; **Route:** SC; **Species:** mice; **Pump:** 2004; **Duration:** 4 weeks; 28 days;

ALZET Comments: Controls received mp w/ vehicle; animal info (male, C57BL6 or IL-18 KO, 8 weeks old); 9% ethanol used; 86.5% propylene glycol used; replacement therapy (uniphrectomy); immunology; Bp measured using indirect tail cuff; Dose (0.15 ug/h);

Q5201: H. Shi, *et al.* Effects of p53 on aldosterone-induced mesangial cell apoptosis in vivo and in vitro. *Mol Med Rep* 2016;13(6):5102-8

Agents: Aldosterone **Vehicle:** Saline; **Route:** SC; **Species:** Rat; **Pump:** 2004; **Duration:** 4 weeks;

ALZET Comments: Controls received mp w/ vehicle; animal info (male, Sprague Dawley, 260-290g); cardiovascular; bp measured using tail cuff; Dose (0.75 ug/h);

Q5200: L. Sheng, *et al.* Epidermal growth factor receptor signaling mediates aldosterone-induced profibrotic responses in kidney. *Experimental Cell Research* 2016;346(1):99-110



Agents: Aldosterone **Vehicle:** Ethanol; **Route:** SC; **Species:** Rat; **Pump:** 2004; **Duration:** 4 weeks;
ALZET Comments: Controls received mp w/ vehicle; animal info (male, Sprague Dawley, 5 weeks old, 18-200g); cardiovascular; Dose (0.75 ug/hr);

Q5191: T. Sakamoto, *et al.* Alteration of amiloride-sensitive salt taste nerve responses in aldosterone/NaCl-induced hypertensive rats. *Neurosci Res* 2016;108(60-6

Agents: Aldosterone **Vehicle:** Ethanol; propylene glycol; water; **Route:** SC; **Species:** Rat; **Pump:** 2006; **Duration:** 5 weeks;
ALZET Comments: Controls received mp w/ vehicle; animal info (male, Sprague Dalwey, 4 week old, 130-150g); 9% ethanol used; 87% propylene glycol; cardiovascular; bp measured using tail cuff; Dose (0.75 ug/h);

Q5969: J. C. Reil, *et al.* Hyperaldosteronism induces left atrial systolic and diastolic dysfunction. *American Journal of Physiology Heart and Circulatory Physiology* 2016;311(4):H1014-H1023

Agents: Aldosterone **Vehicle:** Not Stated; **Route:** SC; **Species:** Rat; **Pump:** 2ML4; **Duration:** 8 weeks;
ALZET Comments: Controls received no minipump; animal info (8 weeks old); cardiovascular; Therapeutic indication (Hypertension, stroke, thromboembolism); Dose (1.5 ug/h);

Q6628: H. Nakagawa, *et al.* Salt accelerates aldosterone-induced cardiac remodeling in the absence of guanylyl cyclase-A signaling. *Life Sci* 2016;165(9-15

Agents: Aldosterone **Vehicle:** Not Stated; **Route:** SC; **Species:** Mice (knockout); **Pump:** Not Stated; **Duration:** 4 weeks;
ALZET Comments: Dose (100 ng/kg/min); Controls received mp w/ vehicle; animal info (Male 12-week-old GC-A KO mice and their WT littermates); cardiovascular;

Q4896: P. S. L. María Valero-Muñoz, BS; Richard M. Wilson, BS; Maarten Hulsmans, PhD, *et al.* Heart Failure With Preserved Ejection Fraction Induces Beiging in Adipose Tissue. *Circulation: Heart Failure* 2016;9(1-10

Agents: Aldosterone, D- **Vehicle:** Saline; **Route:** SC; **Species:** Mice; **Pump:** Not Stated; **Duration:** 4 weeks;
ALZET Comments: Controls received mp w/ saline; animal info (C57BL6, 8 weeks old, 20-25g, uninephrectomy); replacement therapy (uninephrectomy); cardiovascular; bp measured using tail cuff; Dose (0.3 ug/h);

Q6567: Y. Kakizoe, *et al.* A serine protease inhibitor attenuates aldosterone-induced kidney injuries via the suppression of plasmin activity. *J Pharmacol Sci* 2016;132(2):145-153

Agents: Aldosterone **Vehicle:** DMSO; Saline; **Route:** SC; **Species:** Rat; **Pump:** 2004; **Duration:** Not Stated;
ALZET Comments: animal info (9 week old male SpragueeDawley rats); replacement therapy (left uninephrectomy);

Q4899: y. B. S. H. H.-W. WANG, y A. CHEN, M. AHMAD,, *et al.* ROLE OF BRAIN ALDOSTERONE AND MINERALOCORTICOID RECEPTORS IN ALDOSTERONE-SALT HYPERTENSION IN RATS. *Neuroscience* 2016;314(90-105

Agents: Aldosterone; eplerenone; FAD286 **Vehicle:** CSF, artificial; acetonitrile; **Route:** SC; CSF/CNS; **Species:** Rat; **Pump:** 2004; **Duration:** 2 weeks, 3 weeks;
ALZET Comments: Controls received mp w/ vehicle; animal info (male, Wistar, 200-250g); 4% acetonitrile used; Multiple pumps per animal; cardiovascular; bp measured using radiotelemetry; bp measured using radiotelemetry; dose (1.5 and 7.5 ug/kg/hr Aldosterone, 5ug/day Eplerenone, 25 ug/day FAD286)

Q5346: R. D. Feldman, *et al.* Aldosterone mediates metastatic spread of renal cancer via the G protein-coupled estrogen receptor (GPER). *FASEB J* 2016;30(6):2086-96

Agents: Aldosterone; G protein-coupled estrogen receptor 15 antagonist **Vehicle:** Not Stated; **Route:** SC; **Species:** Mice; **Pump:** 1004; **Duration:** 2 weeks;
ALZET Comments: Controls received mp w/ vehicle; animal info (BALB/c male mice, 2 month old); cancer (Orthotopic renal cancer); dose-response (pg. 2093); Dose (200 ug/kg/day for both);

Q6110: T. Bruder-Nascimento, *et al.* NLRP3 Inflammasome Mediates Aldosterone-Induced Vascular Damage. *Circulation* 2016;134(23):1866-1880

Agents: Aldosterone **Vehicle:** Not Stated; **Route:** Not Stated; **Species:** Mice; **Pump:** Not Stated; **Duration:** 14 days;



ALZET Comments: Dose (600 µg/kg/d); Controls received mp w/ vehicle; animal info (8-10 week old male wild type, NLRP3 knockout, caspase-1 knockout, and interleukin-1 receptor knockout mice); cardiovascular;

Q6530: Bin Wang, *et al.* Role of FOXO1 in aldosterone-induced autophagy: A compensatory protective mechanism related to podocyte injury. *ONCOTARGET* 2016;7(29):45331-45351

Agents: Aldosterone **Vehicle:** Not Stated; **Route:** SC; **Species:** Rat; **Pump:** 2004; **Duration:** 28 days;

ALZET Comments: Dose (0.75 µg/kg/min); animal info (5-6 week old male Sprague-Dawley rats weighing 190 g); replacement therapy (uniphrectomy);