



Recent References (2018-Present) on the Administration of Bromodeoxyuridine
Using ALZET® Osmotic Pumps

Q11209: A. R. Oller, *et al.* Comparative pulmonary and genotoxic responses to inhaled nickel subsulfide and nickel sulfate in F344 rats. *Journal of Applied Toxicology* 2023;43(5):734-751

Agents: Uridine, bromodeoxy- **Vehicle:** PBS; **Route:** Not Stated; **Species:** Rat; **Strain:** F344/N; **Pump:** Not Stated; **Duration:** Not Stated;

ALZET Comments: Dose (1 µg/g/day); Controls received mp w/ vehicle; animal info (Male approx 6 weeks old); toxicology;

Q11142: S. I. Masunaga, *et al.* The impact of TP53 status of tumor cells including the type and the concentration of administered 10B delivery agents on compound biological effectiveness in boron neutron capture therapy. *Journal of Radiation Research* 2023;64(2):399-411

Agents: 5-bromo-2-deoxyuridine **Vehicle:** Saline; **Route:** SC; **Species:** Mice; **Strain:** Balb/cA nude; **Pump:** 2001; **Duration:** 7 d

ALZET Comments: Dose (250 mg/mL); animal info (6-7 weeks old);

R0404: H. Williams, *et al.* Use of Mouse Carotid Artery Ligation Model of Intimal Thickening to Probe Vascular Smooth Muscle Cell Remodeling and Function in Atherosclerosis. *Methods in Molecular Biology* 2022;2419(537-560

Agents: Uridine, bromodeoxy- **Vehicle:** Not Stated; **Route:** SC; **Species:** Mice; **Strain:** Not Stated; **Pump:** Not Stated; **Duration:** 1 day; 6 weeks;

ALZET Comments: Dose: (0.11)animal info: male and female adult 2 mos old; post op. care: 1.5 µg of buprenorphine hydrochloride (Vetergesic); Bromodeoxyuridine aka (BrdU)

Q10774: R. M. Wang, *et al.* Myocardial Matrix Hydrogel Acts as a Reactive Oxygen Species Scavenger and Supports a Proliferative Microenvironment for Cardiomyocytes. *Acta Biomaterialia* 2022;152(47-59

Agents: Uridine, 5-Ethynyl-2'-deoxy-; Uridine, Bromodeoxy- **Vehicle:** Saline; **Route:** SC; **Species:** Rat; **Strain:** Sprague Dawley; **Pump:** Not Stated; **Duration:** 3 weeks;

ALZET Comments: Dose: (20 mg/kg/day); Controls received mp w/ vehicle; animal info: Female; pumps replaced after 1.5 weeks; 5-Ethynyl-2 deoxyuridine aka (EdU); Bromodeoxy, uridine aka (BrdU); cardiovascular;

Q10668: P. J. Ruchaya, *et al.* Transplantation of Skeletal Muscle-Derived Sca-1(+)/PW1(+)/Pax7(-) Interstitial Cells (PICs) Improves Cardiac Function and Attenuates Remodeling in Mice Subjected to Myocardial Infarction. *Cells* 2022;11(24):

Agents: Uridine, bromodeoxy- **Vehicle:** PBS; **Route:** SC; **Species:** Mice; **Strain:** C57BL/6; **Pump:** Not Stated; **Duration:** 14 days; **ALZET Comments:** Dose (0.2 M); Controls received mp w/ vehicle; animal info (8-week old male); cardiovascular;

Q10542: F. Heinemann, *et al.* Quantification of Hepatocellular Mitoses in a Toxicological Study in Rats Using a Convolutional Neural Network. *Toxicologic Pathology* 2022;50(3):344-352

Agents: Uridine, bromodeoxy- **Vehicle:** Saline; **Route:** SC; **Species:** Rats; **Strain:** CrI:WI(Han); **Pump:** Not Stated; **Duration:** Not Stated;

ALZET Comments: Dose (20 mg/ml saline; animal info Male; Split into groups of 7; 7-8 weeks old; Weighed 150-200 g);

Q10911: L. Zhu, *et al.* Dynamic Folding Modulation Generates FGF21 Variant Against Diabetes. *EMBO Reports* 2021;22(1):e51352

Agents: Uridine, 5-bromo-2-deoxy- **Vehicle:** Not Stated; **Route:** SC; **Species:** Mice; **Strain:** ob/ob; ICR; **Pump:** 1007D; **Duration:** Not Stated;

ALZET Comments: Dose: (16 mg/ml); animal info: male 6-10 weeks; diabetes

Q10333: S. K. Sinha, *et al.* Local M-CSF (Macrophage Colony-Stimulating Factor) Expression Regulates Macrophage Proliferation and Apoptosis in Atherosclerosis. *Arteriosclerosis Thrombosis and Vascular Biology* 2021;41(1):220-233

Agents: Uridine, bromodeoxy- **Vehicle:** Not Stated; **Route:** SC; **Species:** Mice; **Strain:** Wild-type; **Pump:** 1002; **Duration:** 2 w **ALZET Comments:** Dose: (50 µg per day); animal info: 8- to 10-week-old female and male; bromodeoxyuridine aka (BrdU); cardiovascular



Q10065: C. Schnoz, *et al.* Deletion of the transcription factor Prox-1 specifically in the renal distal convoluted tubule causes hypomagnesemia via reduced expression of TRPM6 and NCC. *Pflügers Archiv* 2021;473(1):79-93

Agents: Bumetanide; Uridine, bromodeoxy- **Vehicle:** Water; PEG 300; **Route:** SC; **Species:** Mice; **Strain:** Not Stated; **Pump:** 2001; **Duration:** 3 days;

ALZET Comments: Dose (40 mg/kg/day Bumetanide; 40 mg/kg/day bromodeoxyuridine); dependence;

Q8822: A. Recabal, *et al.* The FGF2-induced tancyte proliferation involves a connexin 43 hemichannel/purinergic-dependent pathway. *Journal of Neurochemistry* 2021;156(2):182-199

Agents: Uridine, bromodeoxy-; Fibroblast Growth Factor 2; Gap27 **Vehicle:** CSF, filtered; **Route:** CSF/CNS; **Species:** Rat; **Strain:** Sprague Dawley; **Pump:** 1007D; **Duration:** 8 days;

ALZET Comments: Dose (0.75 ug/h BrdU, 0.0125 ug/hr FGF2, 0.13 ug/h Gap27); Controls received mp w/ vehicle; animal info (Male, 20-280 g); Bromodeoxyuridine aka BrdU, Fibroblast Growth Factor 2 aka FGF2, Gap27 aka selective Cx43HC inhibitor ; enzyme inhibitor (Cx43HC Inhibitor); dental cement used; dependence;

Q10292: K. Ogata, *et al.* Club Cells Are the Primary Target for Permethrin-Induced Mouse Lung Tumor Formation. *Toxicological Sciences* 2021;184(1):15-32

Agents: Uridine, bromodeoxy- **Vehicle:** DMSO; **Route:** SC; **Species:** Mice; **Strain:** Not Stated; **Pump:** 2001; **Duration:** 7 days;

ALZET Comments: Dose 40 mg/ml; 10% DMSO vehicle used; Controls received mp w/ vehicle; animal info: Female 10 weeks old; Bromodeoxyuridine aka (BrdU); dependence;

Q10001: M. Lafranconi, *et al.* A 90-day drinking water study in mice to characterize early events in the cancer mode of action of 1,4-dioxane. *Regulatory Toxicology and Pharmacology* 2021;119(104819)

Agents: Uridine, bromodeoxy **Vehicle:** Not Stated; **Route:** SC; **Species:** Mice; **Strain:** B6D2F1/Crl; **Pump:** 2ML1; **Duration:** 8 d

ALZET Comments: Animal info (Female mice, 5 to 8 weeks old); bromodeoxyuridine aka BrdU; cancer (tumor development);

Q9306: S. Kikusaki, *et al.* Prevention of postoperative intrapericardial adhesion by dextrin hydrogel. *General Thoracic and Cardiovascular Surgery* 2021;69(9):1326-1334

Agents: Uridine, bromodeoxy- **Vehicle:** Not Stated **Route:** IP **Species:** Rabbit **Strain:** Not Stated **Pump:** 2ML2 **Duration:** 14d

ALZET Comments: Animal info (male Japanese white rabbits, 2.5-3.0 kg); bromodeoxyuridine aka BrdU; cardiovascular;

Q9208: E. I. Dedkov. Large- and Medium-sized Arteries Remaining in Transmural Scar Distal to Permanent Coronary Ligation Undergo Neointimal Hyperplasia and Inward Remodeling. *Journal of Histochemistry & Cytochemistry* 2021;69(5):321-338

Agents: Uridine, 5-bromo-2'-deoxy- **Vehicle:** PBS; **Route:** Not Stated; **Species:** Rat; **Strain:** Sprague-Dawley; **Pump:** Not Stated; **Duration:** 3 days;

ALZET Comments: Dose (12.5 mg/kg/day); animal info (12-month-old male); dependence;

Q9923: T. Yamada, *et al.* Comparison of the Hepatic Effects of Phenobarbital in Chimeric Mice Containing Either Rat or Human Hepatocytes With Humanized Constitutive Androstane Receptor and Pregnane X Receptor Mice. *Toxicological Sciences* 2020;177(2):362-376

Agents: 5-bromo-2-deoxy-uridine **Vehicle:** Not stated; **Route:** SC; **Species:** Mice; **Strain:** Not Stated; **Pump:** 2ML1; **Duration:** 7 days;

ALZET Comments: Dose (40 or 200 ug/hr); animal info (Male); 5-bromo-2-deoxy-uridine aka BrdU ; dependence;

Q8621: B. G. Lake, *et al.* Piperonyl butoxide: Mode of action analysis for mouse liver tumour formation and human relevance. *Toxicology* 2020;439(152465)

Agents: Uridine, 5-bromo-5'-deoxy- **Vehicle:** PBS; **Route:** SC; **Species:** Mice; **Strain:** Crl:CD-1; **Pump:** 2001; **Duration:** 7 days;

ALZET Comments: Dose (15 mg/mL); animal info (Male mice, approximately 42 days old);



Q8564: K. Kawamoto, *et al.* Cell proliferation analysis is a reliable predictor of lack of carcinogenicity: Case study using the pyrethroid imiprothrin on lung tumorigenesis in mice. *Regulatory Toxicology and Pharmacology* 2020;113(104646

Agents: Bromodeoxy, uridine **Vehicle:** DMSO; **Route:** SC; **Species:** Mice; **Strain:** Not Stated; **Pump:** 2001; **Duration:** 7 days;
ALZET Comments: Dose (40 mg BrdU/mL); 10% DMSO used; animal info (Male mice aged 9 weeks);

Q9039: C. Wiemann, *et al.* Metazachlor: Mode of action analysis for rat liver tumour formation and human relevance. *Toxicology* 2019;426(152282

Agents: Uridine, bromodeoxy- **Vehicle:** Saline; **Route:** Not Stated; **Species:** Rat; **Strain:** Wistar; **Pump:** 2ML1; **Duration:** 7 days;
ALZET Comments: Dose (20 mg/ml); Bromodeoxyuridine aka BrdU; dependence;

Q8814: L. E. Ragle, *et al.* Long-label-retaining mammary epithelial cells are created early in ductal development and distributed throughout the branching ducts. *Mechanisms of Development* 2019;159(103565

Agents: Uridine, 5-bromodeoxy- **Vehicle:** Not Stated; **Route:** SC; **Species:** Mice; **Strain:** Not Stated; **Pump:** Not Stated;
Duration: 14d

ALZET Comments: Dose (0.1 mg); animal info (3 weeks old); 5-bromodeoxyuridine aka 5BrdU; dependence;

R0384: A. A. Pieper, *et al.* Benefits of Enhancing Nicotinamide Adenine Dinucleotide Levels in Damaged or Diseased Nerve Cells. *Cold Spring Harbor Symposia on Quantitative Biology* 2019;

Agents: Uridine, bromodeoxy-; aminopropylcarbazole **Vehicle:** Not stated; **Route:** CSF/CNS; **Species:** Mice; **Strain:** Not Stated;
Pump: Not stated; **Duration:** 1 week;

ALZET Comments: neurodegenerative (missing NPAS3 impaired hippocampal neurogenesis);

Q8277: S. I. Masunaga, *et al.* Effects of p53 Status of Tumor Cells and Combined Treatment With Mild Hyperthermia, Wortmannin or Caffeine on Recovery From Radiation-Induced Damage. *World J Oncol* 2019;10(3):132-141

Agents: 5-bromo-2'-deoxyuridine **Vehicle:** Saline; **Route:** SC; **Species:** Mice; **Strain:** Balb/c; **Pump:** 2001; **Duration:** 7 days;
ALZET Comments: animal info (6-7 weeks old, Female); 5-bromo-2'-deoxyuridine aka BrdU; dependence;

Q9801: S. I. Masunaga, *et al.* Usefulness of combination with both continuous administration of hypoxic cytotoxin and mild temperature hyperthermia in boron neutron capture therapy in terms of local tumor response and lung metastatic potential. *International Journal of Radiation Biology* 2019;95(12):1708-1717

Agents: 5-bromo-2'-deoxyuridine **Vehicle:** Saline; **Route:** SC; **Species:** Mice; **Strain:** C57Bl/6; **Pump:** Not Stated; **Duration:** 6 d
ALZET Comments: Dose (250 mg/mL); Controls received mp w/ vehicle; animal info (Female, 8 weeks old);

Q8278: S. I. Masunaga, *et al.* Effect of a change in reactor power on response of murine solid tumors in vivo, referring to impact on quiescent tumor cell population. *Int J Radiat Biol* 2019;95(5):635-645

Agents: 5-bromo-20-deoxyuridine **Vehicle:** Saline; **Route:** SC; **Species:** Mice; **Strain:** C3H/He; **Pump:** Not stated; **Duration:** 5d
ALZET Comments: Dose (200-250 mg/ml); animal info (8-11 weeks old, 22.1 g);

Q7617: A. Kostin, *et al.* Chronic Suppression of Hypothalamic Cell Proliferation and Neurogenesis Induces Aging-Like Changes in Sleep-Wake Organization in Young Mice. *Neuroscience* 2019;404(541-556

Agents: Arabinofuranoside, cytosine-beta-D-; deoxyuridine, 5-bromo-2'- **Vehicle:** CSF, Artificial; **Route:** CSF/CNS (lateral ventricle); **Species:** Mice; **Strain:** C57BL/6J; **Pump:** 1004; **Duration:** 4 weeks;

ALZET Comments: Dose (AraC 15 mg/ml, 2.69 µl/day), (BrdU 4 mg/ml)); Controls received mp w/ vehicle and BrdU; animal info (3-4 or 23-24 months); functionality of mp verified by residual volume and BrdU staining; cytosine beta-D-arabinofuranoside (AraC) is an antimetabolic agent previously shown to suppress hypothalamic proliferation and neurogenesis; Brain coordinates (2 mm dorsal to the lateral ventricle (LV: anterior-posterior, -0.3 mm; dorsal-ventral, 2.5 mm; and lateral, 1.0 mm from the bregma)); Cannula placement verified via photomicrograph of histological section; "We used micro-osmotic pump and ICV administration for chronic delivery of aCSF or AraC, which provided good control of drug concentration and continuous delivery without disturbing animals. This method also reduced the likelihood that treatment effects on sleep-wake function could be due to stress of daily or multiple IP injections or mechanical or inflammatory responses of the sites examined in this study due to local manipulation." pg.552; "We also noted that, unlike the control group, the AraC+BrdU-treated mice did not maintain their nests well." p.545;



- Q6967:** M. Kondo, *et al.* Involvement of peroxisome proliferator-activated receptor- α in liver tumor production by permethrin in the female mouse. *Toxicol Sci* 2019;
Agents: Uridine, Bromodeoxy **Vehicle:** DMSO; **Route:** SC; **Species:** Mice; Rat; **Strain:** Crlj:CD1(ICR); PPAR α KO; C57BL/6N; RccHanTM:WIST **Pump:** 2001; 2ML2; **Duration:** 7 days; 14 days;
ALZET Comments: Dose (8.4 mgBrdU/mouse.; 33.6 mg BrdU/rat); 10% DMSO used; cancer (liver); stress/adverse reaction: One animal was dead due to anesthesia at implantation of osmotic pump;
- Q7941:** I. Aquila, *et al.* c-kit Haploinsufficiency impairs adult cardiac stem cell growth, myogenicity and myocardial regeneration. *Cell Death Dis* 2019;10(6):436
Agents: Uridine, 5-bromo-2'-deoxy-; Uridine, 5-Ethynyl-2'-deoxy-; Uracil, 5-fluoro- **Vehicle:** Water, Deionized, DMSO buffered;
Route: SC; **Species:** Mice; **Strain:** C57BL/6J, Tg-myh6(MCM); Tg-myh6MCM: R26(mT-mG/+); **Pump:** Not stated;
Duration: 7, 25, 28 days;
ALZET Comments: Dose ((BrdU 50 mg/kg/day), (EdU 50 mg/kg/day), (5-FU 15 mg/kg/day)); 50% deionized water and 50% DMSO used; Controls received mp w/ vehicle; animal info (12 weeks, male); cardiovascular; mp used for BrdU and EdU labeling or for ISO + 5-FU induced cardiomyopathy;
- Q7933:** I. Vitali, *et al.* Progenitor Hyperpolarization Regulates the Sequential Generation of Neuronal Subtypes in the Developing Neocortex. *Cell* 2018;174(5):1264-1276 e15
Agents: Uridine, 5-bromo-2'-deoxy- **Vehicle:** Water; DMSO; **Route:** IP; **Species:** Mice; **Strain:** CD-1; **Pump:** 1003D;
Duration: 72 hours;
ALZET Comments: Dose (16.25 mg/ml); 1:1 ratio of DMSO to water used; animal info (female); pumps used for BrdU labeling of pregnant mice;
- Q7863:** Y. Sanada, *et al.* Disruption of Hif-1 α enhances cytotoxic effects of metformin in murine squamous cell carcinoma. *International Journal of Radiation Biology* 2018;94(1):88-96
Agents: Uridine, 5-bromo-2'-deoxy- **Vehicle:** Saline, physiological; **Route:** SC; **Species:** Mice; **Strain:** C3H/He; **Pump:** Not Stated; **Duration:** 5 days;
ALZET Comments: Dose (250 mg/mL); animal info (7-8 weeks, female); cancer (squamous cell carcinoma);
- Q8139:** H. Mziaut, *et al.* miR-132 controls pancreatic beta cell proliferation and survival in mouse model through the Pten/Akt/Foxo3 signaling. *Molecular Metabolism* 2018;31(150-162
Agents: Uridine, Bromodeoxy- **Vehicle:** DMSO; **Route:** IP; **Species:** Mice; **Strain:** C57Bl/6N; **Pump:** 1007D; **Duration:** 7 days;
ALZET Comments: Dose (0.5 ul/hr/day); 50% DMSO used; animal info (mice with an age of 13-19 weeks and a body weight of 28-34 g); Bromodeoxyuridine aka BrdU ; cardiovascular;
- Q7233:** O. A. Mineyeva, *et al.* Spatial geometry of stem cell proliferation in the adult hippocampus. *Sci Rep* 2018;8(1):3444
Agents: Thymidine, 5-bromo-2'-deoxyuridine **Vehicle:** Saline; **Route:** SC; **Species:** Mice; **Strain:** Nestin-GFP; **Pump:** 1007D;
Duration: 5 days;
ALZET Comments: Dose (3 mg); animal info (2.5 months old, mice);
- Q8107:** E. Magrinelli, *et al.* Simultaneous production of diverse neuronal subtypes during early corticogenesis. *Scientific Reports* 2018;12(**Agents:** Uridine, Bromodeoxy- **Vehicle:** Saline; **Route:** IP; **Species:** Mice; **Strain:** CD1; **Pump:** 1003D; 2001;
Duration: 3 days; 7 days;
ALZET Comments: Dose (16 mg/ml both 0.1 ul/hr); bromodeoxyuridine aka BrdU ; neurodegenerative (Corticogenesis);
- Q8074:** F. C. Lewis-McDougall, *et al.* Aged-senescent cells contribute to impaired heart regeneration. *Aging Cell* 2018;18(**Agents:** Uridine, bromodeoxy- **Vehicle:** Saline; **Route:** SC; **Species:** Mice; **Strain:** Not Stated; **Pump:** Not Stated;
Duration: 14 days;
ALZET Comments: Dose (0.2 M); animal info (22-32 months); Bromodeoxyuridine aka BrdU, thymidine analogue ; dependence;



- Q7185:** S. E. Iismaa, *et al.* Cardiac hypertrophy limits infarct expansion after myocardial infarction in mice. *Sci Rep* 2018;8(1):6114
Agents: Uridine, 5-bromo-2'-deoxy- **Vehicle:** DMSO, Water; **Route:** SC; **Species:** Mice; **Strain:** Not Stated; **Pump:** 2002, 2006; **Duration:** 9 days and 12 weeks;
ALZET Comments: Dose (10 mg/kg/day); 50% DMSO/water used; animal info (16 weeks old male); post op. care (bupivacaine, 8 mg/kg, buprenorphine, 0.075 mg/kg); Model 2006 pumps replaced after 6 weeks; long-term study; 5-bromo-2'-deoxyuridine aka BrdU; cardiovascular;
- Q7824:** C. Haines, *et al.* Comparison of the effects of sodium phenobarbital in wild type and humanized constitutive androstane receptor (CAR)/pregnane X receptor (PXR) mice and in cultured mouse, rat and human hepatocytes. *Toxicology* 2018;396-397(23-32)
Agents: Uridine, 5-bromo-2'-deoxy- **Vehicle:** PBS; **Route:** SC; **Species:** Mice; **Strain:** C57BL/6J; hCAR/hPXR; **Pump:** 2001; **Duration:** 7 days;
ALZET Comments: Dose (15 mg/ml); PBS (pH 7.4) used; Controls received mp w/ agent; animal info (12 weeks, male); toxicology; minipumps used to measure replicative DNA synthesis;
- Q7823:** C. Haines, *et al.* Comparison of the hepatic and thyroid gland effects of sodium phenobarbital in wild type and constitutive androstane receptor (CAR) knockout rats and pregnenolone-16alpha-carbonitrile in wild type and pregnane X receptor (PXR) knockout rats. *Toxicology* 2018;400-401(20-27)
Agents: Uridine, 5-bromo-2'-deoxy- **Vehicle:** PBS; **Route:** SC; **Species:** Rat; **Strain:** Sprague-Dawley, CAR KO; PXR KO; **Pump:** 2ML1; **Duration:** 7 days;
ALZET Comments: Dose (15 mg/ml); PBS (pH 7.4) used; Controls received mp w/ agent; animal info (14 weeks, male); toxicology; minipumps used for measure replicative DNA synthesis;
- Q7027:** S. Govindan, *et al.* In vivo pulse labeling of isochronic cohorts of cells in the central nervous system using FlashTag. *Nat Protoc* 2018;13(10):2297-2311
Agents: Uridine, bromodeoxy-, Deoxyuridine, 5-ethynyl-2' **Vehicle:** Not Stated; **Route:** SC; **Species:** Mice; **Strain:** Not Stated; **Pump:** 1003D; **Duration:** 3 days;
ALZET Comments: Dose (16 mg/ml BrdU or 10 mg/ml EdU);
- Q7820:** J. M. Gonzalez-Rosa, *et al.* Myocardial Polyploidization Creates a Barrier to Heart Regeneration in Zebrafish. *Developmental Cell* 2018;44(4):433-446 e7
Agents: uridine, bromodeoxy- **Vehicle:** PBS; **Route:** SC; **Species:** Mice; **Strain:** MHC-ECT2; MHC-nLAC double transgenic; MHC-nLAC single transgenic; **Pump:** 1002; **Duration:** Not Stated;
ALZET Comments: Dose (16 mg/ml); animal info (12 weeks); cardiovascular; mp used for BrdU labeling;
- Q8178:** C. Carresi, *et al.* Anti-oxidant effect of bergamot polyphenolic fraction counteracts doxorubicin-induced cardiomyopathy: Role of autophagy and c-kit(pos)CD45(neg)CD31(neg) cardiac stem cell activation. *Journal of Molecular Cellular Cardiology* 2018;119(10-18)
Agents: Uridine, bromodeoxy- **Vehicle:** Saline; **Route:** SC; **Species:** Rat; **Strain:** Wistar; **Pump:** Not Stated; **Duration:** 21 days;
ALZET Comments: Dose(0.6 M);Controls received mp w/ vehicle; animal info (male rats (n = 40) at 6–8 weeks of age (body weight 300 ± 10 g)); Bromodeoxyuridine aka BrdU; cardiovascular (cardiomyopathy)
- Q10118:** R. W. Boyce, *et al.* Decreased osteoprogenitor proliferation precedes attenuation of cancellous bone formation in ovariectomized rats treated with sclerostin antibody. *Bone Reports* 2018;8(90-94)
Agents: Uridine, bromodeoxy- **Vehicle:** PBS, Dulbecco's; DMSO; **Route:** SC; **Species:** Rat; **Strain:** Sprague-Dawley; **Pump:** 2ML1; **Duration:** 5 days;
ALZET Comments: Dose (10 µL/h, 50 mg/mL); 15% DMSO used; Controls received mp w/ vehicle; (6 mo. old female 500 g);