References on the Administration of Melanocyte Stimulating Hormone Using ALZET® Osmotic Pumps


**Agents:** Melanocyte-stimulating hormone α; **Vehicle:** H2O; **Route:** SC; **Species:** Mice; **Pump:** Not Stated; **Duration:** 14 days;

**ALZET Comments:** Dose (150 μg/kg/day); Controls received mp w/ vehicle; animal info (10 weeks old, Male, C57BL/6); α-Melanocyte-Stimulating Hormone aka α-MSH; dependence;


**Agents:** Melanocyte Stimulating Hormone, alpha; Melanocyte Stimulating Hormone, desacetyl-alpha **Vehicle:** Saline; **Route:** Not Stated; **Species:** Mice; **Pump:** 1002; **Duration:** 14 Days;

**ALZET Comments:** Dose (5 mg /25 g body weight/day for both peptides); Controls received mp w/ vehicle; animal info (Pomc mutation mice, ~21-22 weeks old); Melanocyte Stimulating Hormone aka MSH; peptides; Obesity;


**Agents:** Melanocyte-stimulating hormone, alpha **Vehicle:** Saline; **Route:** SC; **Species:** Rat; **Pump:** 2006; **Duration:** 6 weeks;

**ALZET Comments:** Dose (0.72 μg /h); Controls received mp w/ vehicle; animal info (Zucker Diabetic Fatty rats); diabetes;


**Agents:** Melanocyte-stimulating hormone, α- **Vehicle:** Saline, pyrogen free; **Route:** CSF/CNS (lateral ventricle); **Species:** Rat; **Pump:** Not Stated; **Duration:** 7 days;

**ALZET Comments:** Dose (1 μg/μl/h); Controls received mp w/ vehicle; animal info (Male Wistar rats aged 2, 3, 12 or 24 months); ALZET brain infusion kit used; delayed delivery (12 hours);

Q4074: I. Rostas, et al. Age-related alterations in the central thermoregulatory responsiveness to alpha-MSH. JOURNAL OF THERMAL BIOLOGY 2015;49(5-9-15

**Agents:** Melanocyte-stimulating hormone, alpha **Vehicle:** Not Stated; **Route:** CSF/CNS; **Species:** Rat; **Pump:** Not Stated; **Duration:** Not Stated;

**ALZET Comments:** ALZET brain infusion kit used; pumps mentioned in introduction and discussion;

Q0718: E. Petervari, et al. Central alpha-MSH infusion in rats: Disparate anorexic vs. metabolic changes with aging. REGULATORY PEPTIDES 2011;166(1-3):105-111

**Agents:** Melanocyte stimulating hormone, alpha **Vehicle:** Saline, pyrogen free; **Route:** CSF/CNS; **Species:** Rat; **Pump:** 2001; **Duration:** 7 days;

**ALZET Comments:** Controls received mp w/ vehicle; animal info (male, Wistar, 2 mo, 3-4 mo, 12 mo, 24 mo old, ); ALZET brain infusion kit used; cannula placement verified macroscopically; 12 hour delayed delivery due to “dead-space of the connecting tube”


**Agents:** Melanocyte stimulating hormone, alpha **Vehicle:** Saline, pyrogen free; **Route:** CSF/CNS; **Species:** Rat; **Pump:** 2001; **Duration:** 7 days;

**ALZET Comments:** Controls received mp w/ vehicle; peptides; ALZET brain infusion kit used; animal info (male, Wistar, 6-9 wks old, 3-4, 6, 12, 18, 24 mo old)
**Agents:** Melanocyte-stimulating hormone, NDP-g **Vehicle:** Saline, normal; **Route:** SC; **Species:** Rat; **Pump:** 1002; **Duration:** 14 days;  
**ALZET Comments:** Controls received mp w/ vehicle; no stress (see pg. 863); antihypertensive; cardiovascular; peptides; animal info (male, Sprague-Dawley, 180-210 grams); nephrology

**Agents:** Melanocyte-stimulating hormone analogue, a- **Vehicle:** Not Stated; **Route:** IP; **Species:** Mice; **Pump:** 1007D; **Duration:** 1 week;  
**ALZET Comments:** Controls received mp w/ vehicle; peptides; NDP-a-MSH plasma samples taken

**Agents:** Melanocyte stimulating hormone, alpha **Vehicle:** CSF, artificial; **Route:** CSF/CNS; **Species:** Rat; **Pump:** Not Stated; **Duration:** 8 days;  
**ALZET Comments:** Animals allowed to recover for 4-5 days after cannula implantation before pumps implanted

**Agents:** Melanocyte-stimulating hormone, a- **Vehicle:** Citric Acid; sodium chloride; **Route:** SC; **Species:** Mice (SCID); **Pump:** 1002; **Duration:** 3-14 days;  
**ALZET Comments:** Comparison of IV injections vs. mp; stability verified by HPLC analysis after 2 week peptide incubation @ 37ºC; cancer (melanoma); peptides

**Agents:** Melanocyte-stimulating hormone, a- **Vehicle:** Not Stated; **Route:** CSF/CNS (median eminence); **Species:** Rat; **Pump:** Not Stated; **Duration:** no duration posted;  
**ALZET Comments:** peptides

**Agents:** ACTH analog; ORG-2766; Melanocyte-stimulating hormone, a- **Vehicle:** Saline; **Route:** CSF/CNS (sciatic nerve); SC; **Species:** Rat; **Pump:** 2002; **Duration:** 2 weeks;  
**ALZET Comments:** Comparison of oral admin. and admin. by s.c. microspheres; comparison of s.c. injections vs. mp infusion; tissue perfusion (sciatic nerve)

**Agents:** Melanocyte-stimulating hormone, a- **Vehicle:** Saline; **Route:** SC; **Species:** Rat; **Pump:** Not Stated; **Duration:** 5 days;  
**ALZET Comments:** controls received mp w/vehicle; mp model not stated

**Agents:** ACTH (1-24); Dexamethasone disodium phosphate; Melanocyte-stimulating hormone, a-; Thyroxine, l- **Vehicle:** Not Stated; **Route:** SC; **Species:** Rat; **Pump:** Not Stated; **Duration:** 6 days;  
**ALZET Comments:** comparison of agents effects; replacement therapy (hypophysectomy); peptides
Agents: Melanocyte-stimulating hormone, a- Vehicle: Not Stated; Route: SC; Species: Rat; Pump: 2001; Duration: 8 days or 32 hours;
ALZET Comments: comparison of injec vs. mp infusion; no stress p. 14; peptides

Agents: Melanocyte-stimulating hormone, b-; Melanocyte-stimulating hormone, a- Vehicle: Saline; Route: IP; Species: fish; Pump: 2002; Duration: 4 weeks;
ALZET Comments: comparison of agents effects; plasma assayed by RIA at 28 days to verify mp delivery; delivery rate 0.17 ul/hr at 21C; peptides

Agents: Melanocyte-stimulating hormone, a- Vehicle: Water; Route: IP; Species: fish; Pump: 1701; Duration: 10 days;
ALZET Comments: peptides

Agents: Melanocyte-stimulating hormone, a- Vehicle: Acetic acid; Saline; Route: IP; Species: Rat; Pump: Not Stated; Duration: 3 weeks;
ALZET Comments: comparison of injections vs. infusion; replacement therapy (hypophysectomy); pump replaced every 5 days for 3 weeks; peptides