Supplemental figure 1) The CMKLR1 bioassay is specifically activated by chemerin in mouse serum and 3T3-L1 adipocyte media.

To confirm the specificity of the CMKLR1 bioassay, 10 nM recombinant mouse chemerin, 24 hour conditioned 3T3-L1 adipocyte media or mouse serum was incubated for 1 hour with 1, 3 or 10 µg mL\(^{-1}\) of goat anti-mouse chemerin neutralization antibody (R&D biosystems, Minneapolis, MN) or goat 10 µg mL\(^{-1}\) IgG control antibody (Invitrogen, Burlington, ON), prior to applying the samples to the HTLA reporter cells. Ten µg mL\(^{-1}\) of anti-chemerin antibody neutralized more than 99% of CMKLR1 activation by 10 nM recombinant mouse chemerin compared to the IgG control antibody (A). Similarly, 3 µg mL\(^{-1}\) and 10 µg mL\(^{-1}\) (not shown) of the anti-chemerin antibody neutralized more than 99% of CMKLR1 activation by adipocyte media or serum (B). In comparison, the goat IgG control antibody did not significantly affect the apparent chemerin concentration in adipocyte media or mouse serum compared to the untreated control samples (B).

All bars represent the mean ± s.e.m. of 3 samples, and are representative of at least 2 independent experiments * P < 0.05 compared to the control (goat IgG), ANOVA, followed by Tukey’s post hoc test.
Supplemental Figure 1

A

- 10 µg mL\(^{-1}\) Goat Anti-mChemerin
- 10 µg mL\(^{-1}\) Goat IgG Control
- 10 nM Recombinant Mouse Chemerin Control

B

- Serum or Adipocyte Media
- Serum or Adipocyte Media + 10 µg mL\(^{-1}\) Goat IgG
- Serum or Adipocyte Media + 1 µg mL\(^{-1}\) Anti-mChemerin
- Serum or Adipocyte Media + 3 µg mL\(^{-1}\) Anti-mChemerin