



**Supplementary Figure 1. The functionality of the N- and C-terminal truncated ligands reflects the binding properties.** Heterologous competitive binding with <sup>125</sup>I-GIP(1-30)NH<sub>2</sub>, <sup>125</sup>I-GIP(2-30)NH<sub>2</sub>, and <sup>125</sup>I-GIP(3-30)NH<sub>2</sub> radioligands on the GIP receptor in transiently transfected COS-7 cells, mean ± SEM, n = 3-5. LogIC<sub>50</sub> from the heterologous binding studies were plotted against the radioligand and the values were connected for each cold ligand: GIP(1-30)NH<sub>2</sub> (□), GIP(2-30)NH<sub>2</sub> (●), GIP(3-30) (■)NH<sub>2</sub>, GIP(6-30)NH<sub>2</sub> (▼), and GIP(7-30)NH<sub>2</sub> (◆).