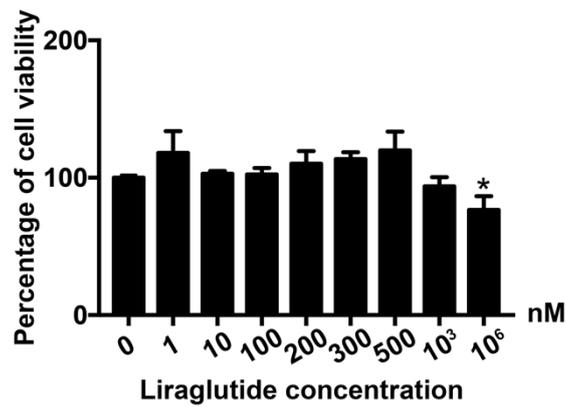


**Figure S1.** In vitro cell cytotoxicity assay of SH-SY5Y cells with 48-h insulin induction. Insulin at 1, 10, 20, 30, 50, and 100 nM was applied onto SH-SY5Y cells for two days. Cell viability was determined by measuring the percentage of cell viability compared to control (0 nM insulin). Values are mean  $\pm$  SEM \*  $p < 0.05$ , \*\*  $p < 0.01$ . All experiments shown were from  $n = 3$ .



**Figure S2.** In vitro cell cytotoxicity assay of SH-SY5Y cells on 24 h liraglutide treatment. Liraglutide at 1, 10, 100, 200, 300, 500, 10<sup>3</sup>, and 10<sup>6</sup> nM was applied onto SH-SY5Y cells for two days. Cell viability was determined by measuring the percentage of cell viability compared to control (0 nM liraglutide). Values are mean  $\pm$  SEM \*  $p < 0.05$ . All experiments shown were from  $n = 3$ .