**Supplementary Figure 1.** The DKK-3 expression levels were not significantly different between control and mannitol treatment (1.02±0.09, P=0.755). Mannitol (5.5 mM glucose plus 44.5 mM mannitol) was an osmotic control of 50 mM glucose. The results are presented as means±SE; n=3. Student’s t test was used.

**Supplementary Figure 2.** There were no significant differences in cell quantity between the control- and 50 mM glucose-treated MIO-M1 cells after 24 h (11.95±0.74×10⁵ vs. 10.90±0.67×10⁵; P=0.298). The results are represented as means±SE of 4 independent experiments; n=4. Student’s t test was used.