Supplementary figures

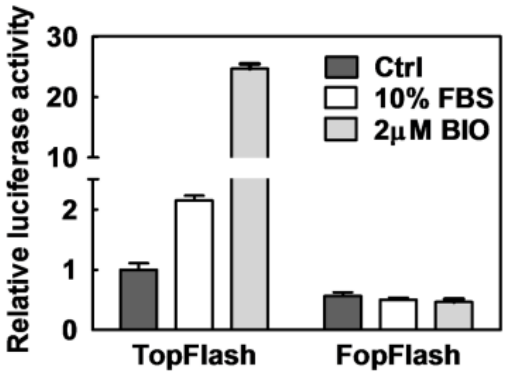

Fig.S1 FBS and BIO stimulate Wnt/β-catenin activities

N2A cells were induced to differentiate into neurons as previously described. Four days later, N2B27 medium was replaced by 10% FBS or added with 2μM BIO and N2A cells were transfected with TopFlash or Fopflash plasmids. The luciferase activities were analyzed 24 hours after transfection.

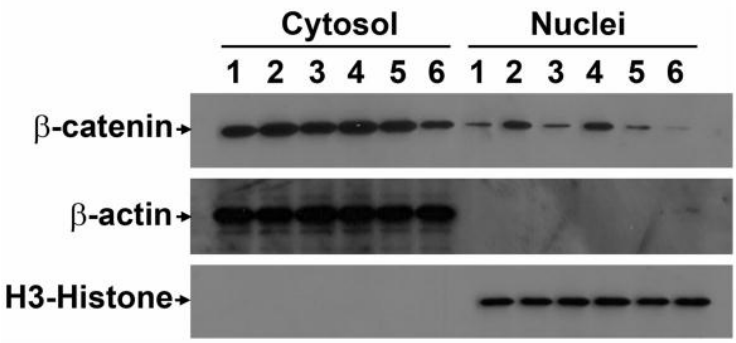

Fig.S2 The expression levels of β-catenin protein in cytosol and nuclei

After induction of N2A cells for 4 days, the cells were added with DMSO (lane 1) or BIO (lane 2), or transfected with GFP (lane 3), S33Y-β-catenin (lane 4), ctrl siRNA (lane 5) or β-catenin siRNA. Cells were harvested for Western blot analysis at 24 hours after treatment or transfection. The expression of β-catenin protein in cytosol and nuclei was indicated. β-actin protein was used as a positive control for cytosol and negative control for nuclei, and H3-histone was used as a positive control for nuclei and negative control for cytosol.

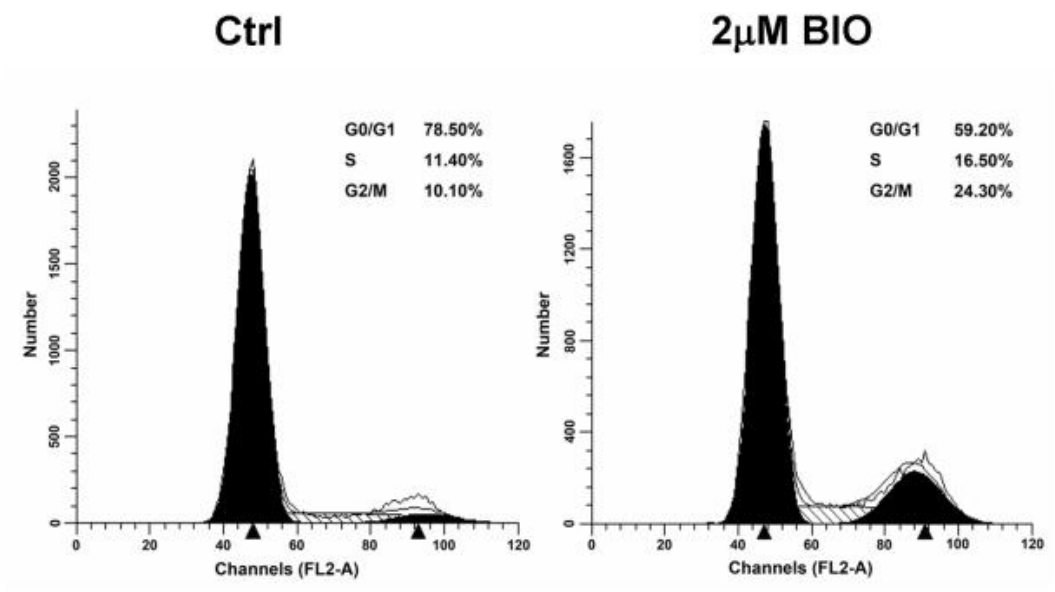

Fig.S3 BIO promotes N2A cell-derived neurons to reenter cell cycle

Changes in the cell cycle of N2A cell-derived neurons after treatment with BIO or DMSO were analysed by PI staining and FACS.