

## **Supplemental Figure Legends**

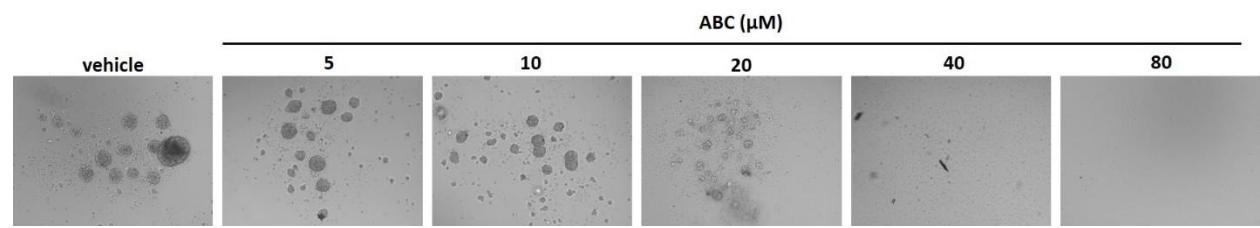
**Figure S1. ABC294640 treatment reduces the proliferation of SF7761 cell line.** DIPG cell line SF7761 were treated with the indicated concentrations of ABC294640 or vehicle for 72 h, then photoed by using a contrast microscope.

**Figure S2. ABC294640 treatment shows little effects on normal brain cell growth.** The cortical neuronal cell-line, HCN-2, were treated with the indicated concentrations of ABC294640 or vehicle for 72 h, then the cell proliferation status was examined using the WST-1 cell proliferation assays (Roche). Error bars represent S.D. for 3 independent experiments.

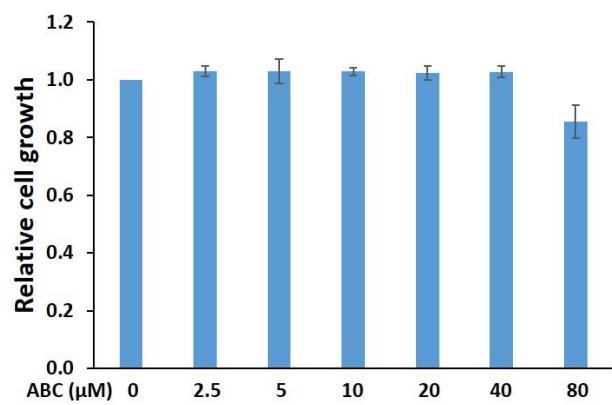
**Figure S3. The distinct morphology between two of DIPG cell lines, SF8628 and SF7761.**

**Figure S4. The compositions and proportions of ceramide species in ABC294640-treated DIPG cells.** Relative compositions and proportions of specific ceramide species were present and compared from vehicle- or ABC294640-treated DIPG cells. Each color representing a specific ceramide species is labeled beside the pie chart.

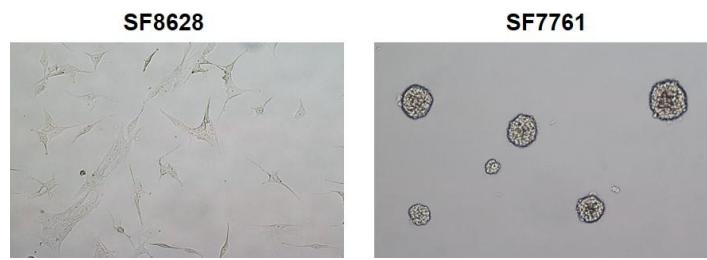
**Figure S1**



**Figure S2**



**Figure S3**



**Figure S4**

